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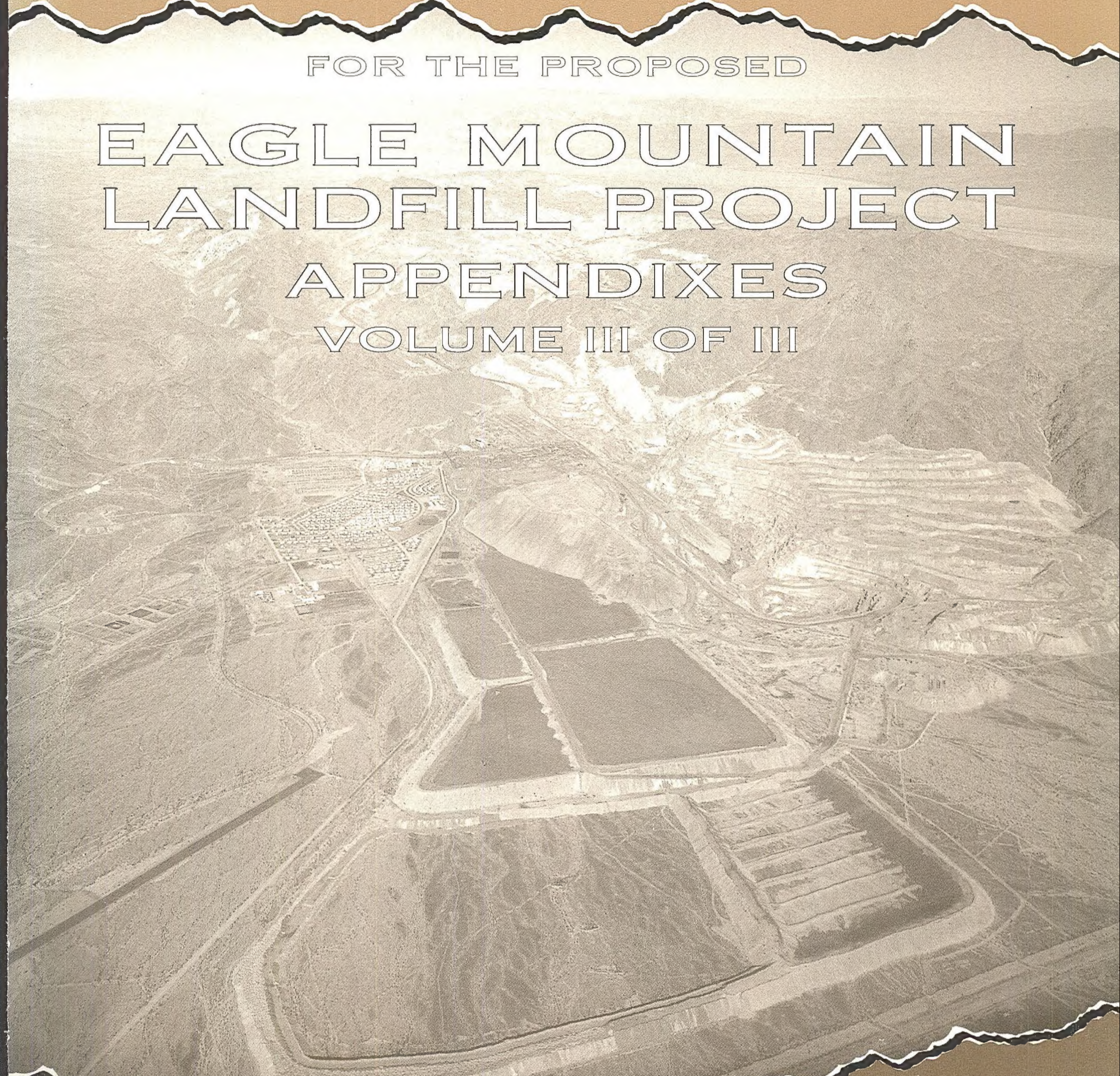
FINAL

ENVIRONMENTAL IMPACT STATEMENT
ENVIRONMENTAL IMPACT REPORT



FOR THE PROPOSED

EAGLE MOUNTAIN LANDFILL PROJECT

APPENDIXES

VOLUME III OF III

JUNE 1992

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APPENDIXES

FINAL
ENVIRONMENTAL IMPACT STATEMENT/ ENVIRONMENTAL IMPACT REPORT FOR THE EAGLE MOUNTAIN LANDFILL PROJECT
(Volume III of III)

Applicant

KAISER STEEL RESOURCES, INC.
and
MINE RECLAMATION CORPORATION

Prepared for

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COUNTY OF RIVERSIDE
PLANNING DEPARTMENT

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EAGLE MOUNTAIN

PROJECT

DRAINAGE REPORT

NOVEMBER 1991

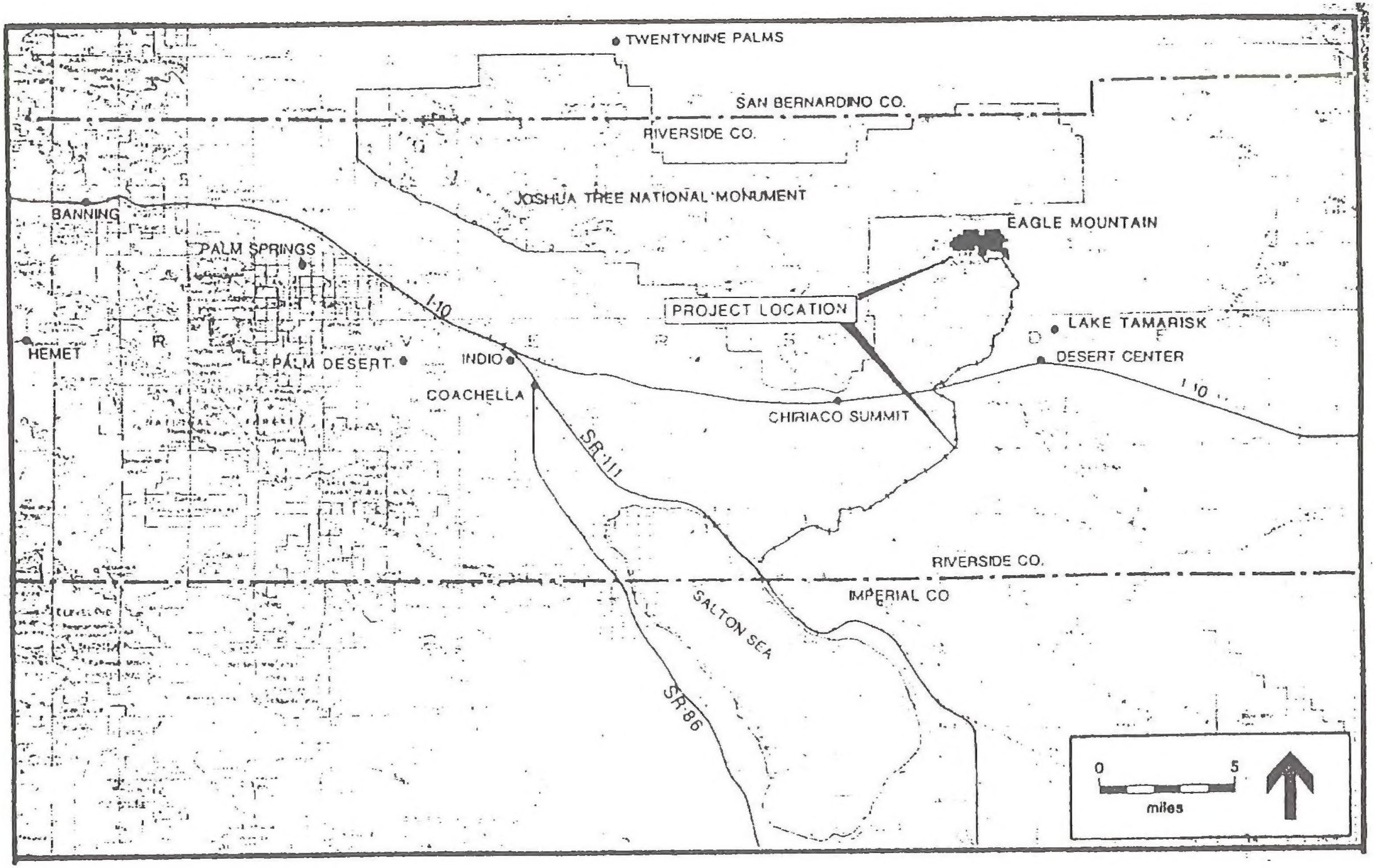
PREPARED FOR:

MINE RECLAMATION CORPORATION
3179 TEMPLE AVENUE, SUITE 290
POMONA, CA 91768

PREPARED BY:

C M ENGINEERING ASSOCIATES, INC.
225 E. AIRPORT DRIVE
P.O. BOX 6087
SAN BERNARDINO, CA 92412
(714) 884-8804

W.O. 3-1021



VICINITY MAP

ENGINEERING ASSOCIATES
Mail P. O. Box 6087 · 92412
Phone (714) 884-8804 or (714) 825-6642
225 East Airport Drive, San Bernardino, California

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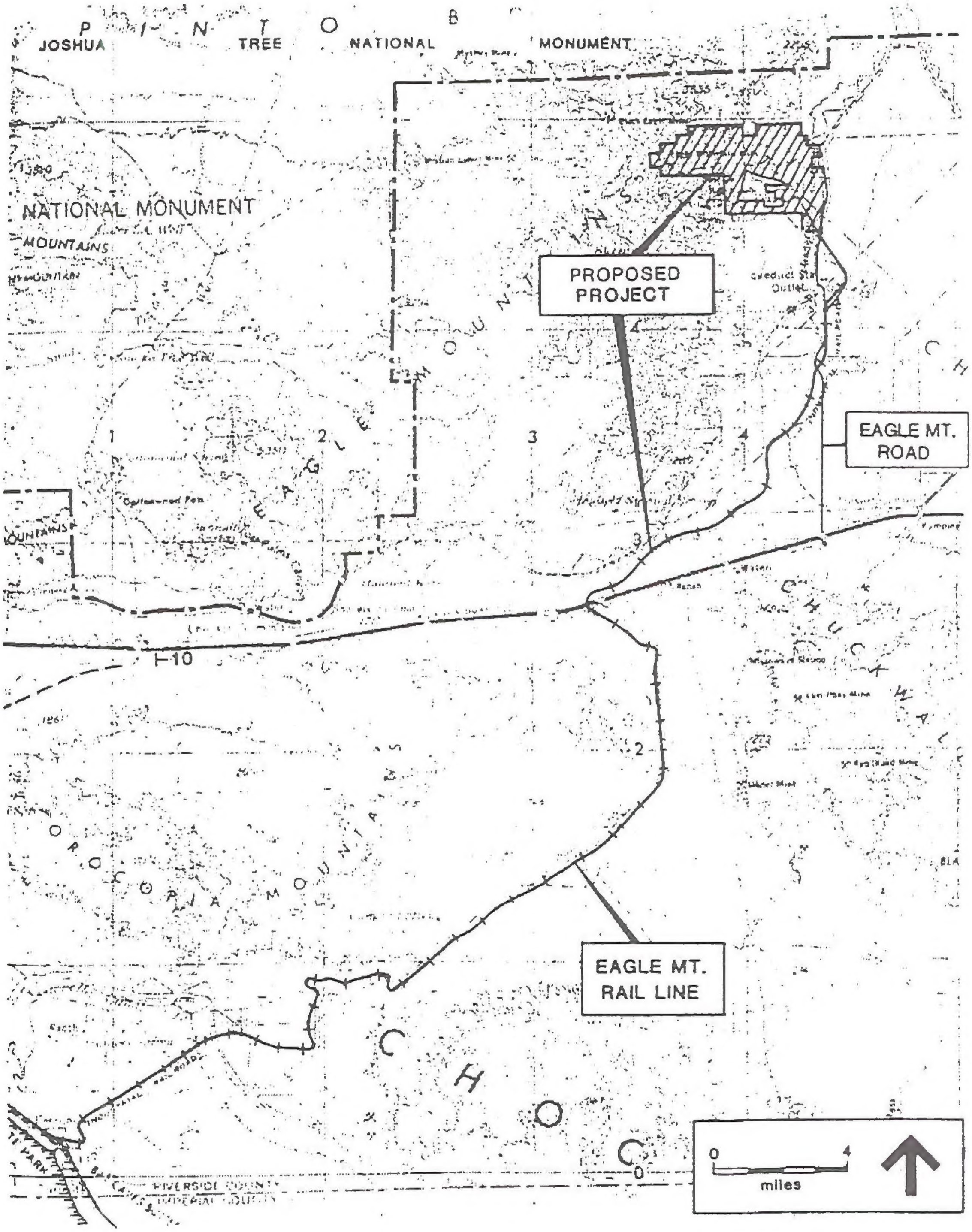

LOCATION MAP

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Mail P. O. Box 6087 · 92412
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SECTION A

DISCUSSION

EAGLE MOUNTAIN LANDFILL PROJECT
DRAINAGE REPORT

GENERAL OVERVIEW

This hydrology study evaluates the ultimate and interim drainage plans associated with development of the Eagle Mountain Landfill Project. Two main tributaries, Eagle Creek and Bald Eagle Creek are the main sources of runoff to the study site. Currently, both tributaries drain into the East Mining Pit which acts as a total retention basin. With development of the proposed landfill, these watercourses will be routed away from the landfill site and operational facilities. Ultimate drainage will be returned to pre-mining conditions where possible. Eagle Creek will be routed through channels and a series of detention facilities in order to mitigate peak flows. Bald Eagle Creek will be intercepted and routed around the landfill site to a detention facility sized to mitigate flows to pre-mining conditions.

In accordance with the Federal Clean Water Act (Section 402(p)), storm water discharges associated with industrial activity must meet all applicable provisions of the National Pollutant Discharge Elimination System (NPDES). This program requires the testing, treatment and monitoring of storm water discharges which may contain hazardous substances in excess of established criteria. As part of the permitting process, an NPDES permit application will be filed with the Regional Water Quality Control Board.

Surface runoff from container handling facilities, equipment washing areas, maintenance facilities and other operational areas will be collected and routed by concrete lined channels to a settling tank and then to a wastewater pre-treatment facility. Floating oil, grease, sand, sludge and other materials will be removed prior to reuse or release into the storm channels. All wastewater will be tested in accordance with procedures and criteria established by Riverside County. Only non-polluted waters will be released into natural drainage courses. Waters found to be unsuitable for discharge will be collected and trucked to off-site licensed facilities for disposal.

SCOPE

The purpose of this hydrology study is to compare the existing and pre-mining conditions with the ultimate developed condition 100-year peak runoff volumes associated with the Eagle Mountain Landfill Project Drainage Plan.

SITE LOCATION

The Eagle Mountain Landfill Project is located in the Eagle Mountain Range, eleven miles north of Desert Center and the Interstate 10 Freeway. The site is accessed by Eagle Mountain Road and Kaiser Road. Just south of the study site is the Eagle Mountain town site. The Metropolitan Water District (MWD) Colorado River Aqueduct borders the site to the east.

BASE CRITERIA

The drainage concept of this plan is based on the premise that natural storm water runoff should not come in contact with landfill operations, so as to avoid possible contamination of "clean" water. Designs incorporate down stream concerns such as Kaiser Road, Eagle Mountain Road, Eagle Mountain railroad, the Eagle Mountain town site, the MWD Aqueduct, and downstream properties in such a manner as to minimize adverse effects to these facilities due to the routing of storm waters.

Hydrology is based on the current Riverside County Flood Control District Hydrology Manual, dated April, 1978. The CivilCadd Rational Method (Version 2.6), Unit Hydrograph and Hydrograph Routing Programs for Riverside County are also utilized in this study. Drainage and flood control facilities will be designed in accordance with the requirements of the September 1984 Memorandum of Understanding between Riverside County and Riverside County Flood Control and Water Conservation District. Although the study site is not located within the boundaries of the Riverside County Flood Control District, the District will review and approve the drainage plan for Riverside County. Maintenance of all drainage facilities will be the responsibility of the operators of the landfill.

Proposed drainage improvements for the landfill will comply with regulations implemented by the Colorado River Basin Region of the California Regional Water Quality Control Board (RWQCB).

Data and procedures for the generation of precipitation values have been obtained from the NOAA Atlas 2 - Volume XI - California (Precipitation Frequency Atlas of the Western United States) dated 1973:

Frequent (Yrs.)	**1 Hour Depth (Inches)**	**3 Hour Depth (Inches)**	**6 Hours Depth (Inches)**	**24 Hour Depth (Inches)**
100	1.56	2.08	2.55	4.15

Article 2546, Subchapter 15, Title 23 of the California Administration Code requires drainage facilities within the waste management unit be sized to handle a 100 year - 24 hour storm. This includes channels on the landfill and within the working face of the landfill. Riverside County Flood Control District recommends sizing drainage facilities outside of the landfill footprint, including landfill perimeter channels, to handle a short-term, high intensity, 100 year-3 hour storm. The 24 hour storm generates a higher total volume of runoff and a lower peak flow (cfs) over a longer period of time. The 3 hour storm, typical of the area, generates approximately twice the peak flow and less volume over a shorter period of time. A drainage channel sized for the 3 hour storm is more than adequate to handle the 24 hour storm. Therefore, sizing permanent drainage facilities to handle the 3 hour storm establishes a more conservative system with a greater level of protection from storm waters.

Drainage channels will be graded and trapezoidal in shape, incorporating channel protection measures where velocities are of an erosive nature. Channels collecting drainage from operations and container handling facilities will be concrete lined where necessary to minimize percolation. Sizing of permanent drainage channels is based on a 100 year - 3 hour storm and incorporates a 20% bulking factor as well as 2 feet of freeboard.

Soil Type D and a Mannings value of 0.045 have been used in this study based on the high runoff potential due to steep canyons and rocky texture of the soil. These conditions provide a runoff coefficient of 93 for natural areas and 98 for paved areas.

EXISTING CONDITIONS

The terrain of the watercourse tributaries outside of the study site can be described as undeveloped, rocky desert with little shrub cover. The steep, sharp canyons of the watercourses provide a maximum elevation of 3045 feet above sea level. A minimum elevation of 1020 is located near the MWD Aqueduct. Existing land use within the study site consists of abandon mining and processing facilities previously operated by Kaiser Steel Corporation. Most of the above ground processing structures have been removed. Remaining facilities consist of unpaved roads, a few buildings and structures, foundations, railroad tracks and minor drainage facilities. Very little impervious areas exist within the study site. Existing conditions are comprised of two separate components, current existing conditions due to processing and mining operations and pre-mining conditions.

1. Pre-Mining Condition

Prior to development of Kaiser Steel mining operations, two main watercourses, Eagle Creek and Bald Eagle Creek flowed through the study site. Eagle Creek drains west to east with a tributary of 4,620 acres. Bald Eagle Creek drains north to south with a tributary of 1,210 acres. Both confluenced at a point which is now the Eagle Mountain town site, conveying a 100 year, 3 hour peak flow of 4,967 cfs. Runoff from the confluence spread into sheet flow and discharged southeasterly over a wide alluvial fan.

2. Post-Mining Condition

Development of the Eagle Mountain site by Kaiser Steel Corporation for the mining and processing of iron ore effected changes to the previous natural drainage courses. Mining excavation of the East Pit directly intercepted Bald

Eagle Creek. This tributary currently discharges directly into the west bowl of the East Pit.

In order to prevent flooding of the townsite and adjacent processing area, Eagle Creek was blocked in two places creating drainage retention areas. During heavy storms, this situation allows Eagle Creek to pond and spill over the main haul road, directing flows into the west bowl of the East Pit. A 100 year - 3 hour peakflow of 4,729 cfs from the two major tributaries would be retained within the west bowl of the East Pit whose volume is more than adequate to contain the total flow. The east bowl of the East Pit collects a 100 year-3 hour peak flow of 1,120 cfs from a tributary of 774 acres.

Basins for the collection of fine tailings were created as part of the mining operations. Located southeast of the East Pit, these act as individual retention basins which retain rain falling directly on them. Therefore, no runoff is generated from these areas.

Runoff from the previous mining operations area and the adjacent hillside does not enter the East Pit. An earthen channel, draining west to east through the operations area, collects drainage from these areas generating a peak flow of 298 cfs. This drainage is routed into another channel parallel and north of Kaiser Road. The Kaiser Road channel directs flows away from the town site and discharges into the desert towards the southeast. Earthen berms have also been constructed parallel to Kaiser Road which provide additional protection to the townsite.

West of the town site and the Return to Custody facility, a large tributary area of approximately 431 acres generates a flow of 567 cfs. This flow is directed under the existing railroad tracks through a 96-inch diamter pipe. Discharge is easterly and south of the town site. Due to prior flood damage to the railroad facilities in this area, additional drainage facilities will need to be incorporated into the rail repair.

INTERIM CONDITION

During the initial phases of the proposed landfill operation, drainage from Eagle Creek and Bald Eagle Creek will be handled in several stages.

1. Stage 1 Drainage

   Bald Eagle Creek will continue to discharge directly into the west bowl of the East Pit. Eagle Creek will be piped under the haul road from the existing lower retention area upstream of the Eagle Mountain townsite to a graded trapezoidal channel along the northern edge of the roadway. The upper existing retention basin will be opened so that runoff will continue to flow towards the lower retention area. Spillover onto the roadway will not occur as in the existing condition. The side walls of the channel will be rip-rap. Rock cut-off walls will be placed as necessary where velocities are erosive. A 100 year-3 hour peak flow of 4,729 cfs will discharge into the west bowl of the East Pit. Stage 1 drainage will be in effect during landfill Phases 1A and 1B, approximately 15 years.

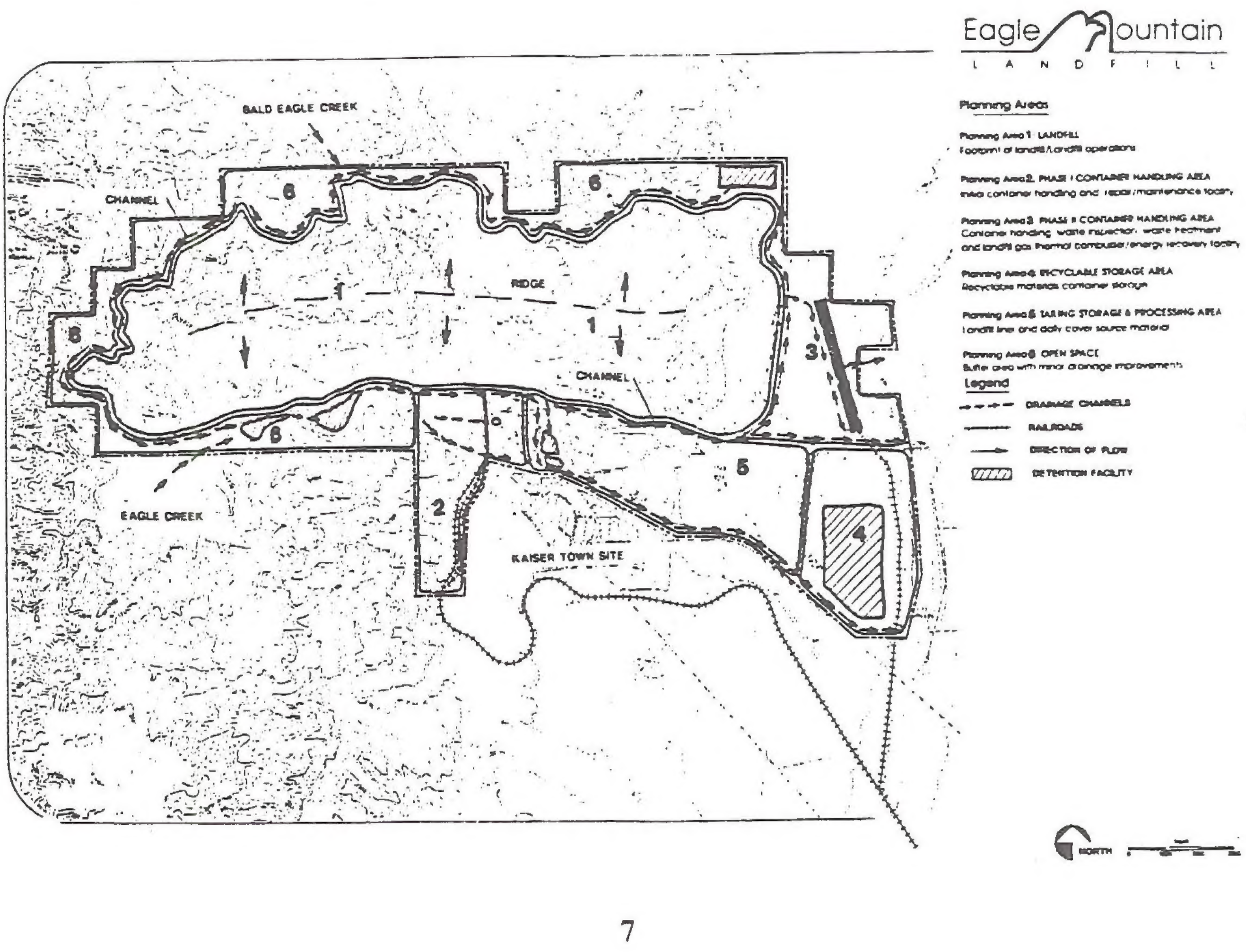
2. Stage 2 Drainage

   A perimeter channel will be constructed to intercept Bald Eagle Creek. Runoff will be routed along the northern edge of the landfill footprint and discharged into a natural watercourse. The channel constructed in Stage 1 will be extended to the east, bypassing the west bowl and discharging into the east bowl of the East Pit. The east bowl will collect the diverted peak flow as well as runoff naturally draining into the east bowl, a 100 year-3 hour peak flow of 5,689 cfs.

3. Landfill Working Face Drainage

   When landfill operations begin in an area, a temporary drainage ditch will be established around the up slope perimeter to intercept stormwater runoff and route it around the active, or working area. As each area is filled, it will be covered with a low permeability compacted soil cap. Final grading of the capped areas will consist of 2:1 (horizontal to vertical) side slopes with an 8-foot wide bench at each 25-foot height increment and a 25-foot wide bench at each 100-foot height increment. Each of these benches will have a v-ditch running along its length to intercept runoff. The top of each fill cap area, whether at interim or final grade, will form a plateau and be graded to drain to the uppermost bench. The bench drains, in turn, will empty into either larger v-ditches or drop into pipe systems along the outer edges of the fill area. These perimeter ditches or pipes will be sized to carry runoff from the graded fill slope areas and convey these flows to either the Eagle Creek channel, to the south, or to the Bald Eagle Canyon perimeter ditch, along the northern edge of the land fill footprint. Final landfill grading will be designed in accordance with Riverside County Grading Ordinances.

DEVELOPED CONDITION


Eagle Mountain
LANDFILL
Planning Areas
Planning Area 1 LANDFILL
Footprint of landfill/landfill operations
Planning Area 2 PHASE I CONTAINER HANDLING AREA
Initial container handling and repair/maintenance facility
Planning Area 3 PHASE II CONTAINER HANDLING AREA
Container handling, waste inspection, waste treatment and landfill gas thermal combustor/energy recovery facility
Planning Area 4 RECYCLABLE STORAGE AREA
Recyclable materials container storage
Planning Area 5 TAILING STORAGE & PROCESSING AREA
Landfill liner and daily cover source material
Planning Area 6 OPEN SPACE
Buffer area with minor drainage improvements
Legend
DRAINAGE CHANNELS
RAILROADS
DIRECTION OF FLOW
DETENTION FACILITY
BALD EAGLE CREEK
CHANNEL
RIDGE
CHANNEL
EAGLE CREEK
KAISER TOWN SITE
1
2
3
4
5
6
6
6
6
NORTH

The developed condition hydrology is based on the ultimate drainage plan for the Eagle Mountain Landfill Project. Land use in Planning Areas No. 2 and No. 3 can be considered industrial. However, offsite tributary areas will remain as undeveloped, rocky desert area.

1. Eagle Creek Drainage

Eagle Creek and it's 4,310 acre tributary drains west to east towards Planning Area No. 2 generating a 100 year peak flow of 3,611 cfs. The two retention facilities upstream of Planning Area No. 2 created by the mining operation will be utilized. Both of these retention facilities will be modified into flow-by detention facilities in order to mitigate peak flows. These facilities will reduce the 100 year peak flow draining into Planning Area No. 2 to 2,362 cfs. This mitigated peak flow will be conveyed by the graded channel developed for the interim stage and routed north of Planning Area No. 2. A trapezoidal channel incorporating rip-rap side walls and rock cut-off walls will direct the drainage south into and along the western edge of a flow-by detention basin located in the southwest corner of Planning Area No. 5. A peak flow of 567 cfs from a 461 acre tributary area being collected by perimeter drains of the landfill will be routed into this same channel and into the flow-by basin addressed above. Peak flows will be detained by the basin while lower volume flows are conveyed in the adjacent bypass channel. A second detention basin will directly follow the previous basin in order to further mitigate peak flows. This dual-detention basin system will reduce the 100 year peak flow in the channel to 1,529 cfs. The channel will route the drainage along the southern border of Planning Area No. 5 and Planning Area No. 4. Planning Area No. 5 is comprised of fine tailing basins which contain their own runoff. Therefore, no additional acreage drains into the storm channel from this area. Once the supply of fine tailings is exhausted, these areas may be considered as possible drainage detention facilities. Planning Area No. 4 is also comprised of two large basins which contain their own runoff. The southern basin will be considered as a possible flow-by detention facility which will discharge into the channel. This mitigation facility reduces the peak flow to 469 cfs which will be carried under the railroad by a box culvert and then discharged onto an energy dissipating structure designed to reduce velocities at the crossing of the MWD Aqueduct to a non-erosive nature.

2. Planning Area No. 2

Currently, a tributary area of 83 acres drains directly onto the operational facilities of Planning Area No. 2 from the adjacent hillside generating a peak 100 year-3 hour flow of 308 cfs. In order to prevent natural runoff from contacting landfill operations, this drainage will be collected and conveyed by a trapezoidal graded channel parallel to the roadway bordering the southern edge of the operations facility. Drainage will be collected from the channel by a drop inlet and carried under the railroad by a 54" pipe culvert. Runoff will be discharged into an existing storm channel north of the Eagle Mountain town site.

South of the operational facilities in Planning Area No. 2, a tributary of 104 acres generates 164 cfs draining toward the railroad. A 48" pipe culvert under the railroad will be required to convey this runoff to the east. A second tributary of 327 cfs generates a 100 year peak flow of 403 cfs and is conveyed under the railroad by an existing 96" diameter pipe. Minor modifications to this culvert may be necessary.

Runoff from the operational facilities in Planning Area No. 2 is comprised of 70 acres generating a peak 100 year-3 hour flow of 230 cfs. The existing channel through the site will convey peak flows toward the railroad. This channel will be reshaped and graded. Individual activity areas will be bermed in order to contain possible spills in these areas. Controlled outlets installed in the berms will allow rainfall drainage to discharge into the channel. Some work areas not adjacent to the channel will require drop inlets and piping to discharge drainage into the channel. Other non-adjacent work areas will be conveyed in the street system, underground pipes or open channels. A 6 foot x 4 foot reinforced concrete box will convey drainage under the railroad. Runoff from the railroad itself will confluence with the drainage and be channeled to the existing thickener structure with a storage capacity of 13.7

acre-feet. Drainage will be tested, treated and routed to the storm channel or treatment facility as necessary per the applicable provisions of the National Pollutant Discharge Elimination System (NPDES).

Drainage from the 40 acres east of the railroad in Planning Area No. 2 currently drain southeast to an existing storm channel. This area will continue to drain in this manner.

3. Planning Area No. 3

Planning Area No. 3 will incorporate two main drainage courses flowing towards the railroad facilities. The southern watercourse has a tributary of 430 acres and generates a 100 year-3 hour peak flow of 488 cfs. This drainage is conveyed in a graded channel bordering the southern edge of Planning Area No. 3 to the railroad facility. The northern tributary of 311 acres generates a 100 year-3 hour peak flow of 431 cfs. A graded channel along the western edge of the railroad facility will collect the runoff and convey the drainage to a point near the center of the railroad yard. Drainage for both streams will be conveyed under the railroad by one or more box culverts toward energy dissipating structures. These structures will slow velocities to a non-erosive nature before crossing the MWD Aqueduct.

Rain falling on operation facilities east of the railroad facilities in Planning Area No. 3 will be routed by concrete lined channel to a detention facility. This runoff will be tested, treated and routed to the southern storm channel or treatment facility as necessary per the applicable provisions of the National Pollutant Discharge Elimination System (NPDES).

4. Planning Area No. 1

The ultimate landfill configuration will create a series of graded hillsides with a ridge line running east to west. Drainage channels will perimeter the landfill and collect landfill runoff. A high point created by the landfill, located to the northwest, will determine direction of flow in the perimeter channels.

Channels will be graded and trapezoidal in shape utilizing protective measures where velocities are of an erosive nature.

Rain falling south of the ridge line will be collected by the southern perimeter channel. A total of 1487 acres will drain south toward three separate outlets. The first outlet will drain into the detention basin in Planning Area No. 5. The second point of discharge will drain into the southern channel of Planning Area No. 3 and the third outlet will discharge into the northern channel of Planning Area No. 3. These acreages will be included in the downstream conveyance calculations.

The ridge of the landfill will create a northern tributary of 1,860 acres generating 1,676 cfs. The northern perimeter channel will collect the drainage from 723 acres of landfill. This channel will also intercept runoff draining toward the landfill, including Bald Eagle Creek. The northern perimeter channel shall route this runoff to a flow-by detention basin in the northeast corner of Planning Area No. 6. The basin and channel will discharge into an existing drainage course. The existing tributary at that point generates a 100-year peak flow of 1,120 cfs in the pre-mining condition. The flow-by basin will mitigate the developed 100 year peak flow to 1,018 cfs, a runoff less than the pre-mining condition.

CONCLUSION

The ultimate hydrology plan is to re-instate the pre-mining condition watercourses when possible. The development of the Kaiser Steel Mining operation, especially the creation of the east mining pit, has established a total retention situation for Eagle Creek and Bald Eagle Creek. Downstream facilities have not had to be concerned with the drainage of Eagle Creek and Bald Eagle Creek since 1975. In filling the East Pit, through development of the Eagle Mountain Landfill Project, drainage will once again become a concern. Development of the Eagle Mountain town site prevents discharge of Eagle Creek to its original location and development of the landfill prevents discharge of Bald Eagle Creek at its original location. In redirecting these major water courses, peak flows and velocities will be mitigated to less than the pre-mining condition at discharge points. The routing of Eagle Creek generates a 100 year - 3 hour peak flow of 3,788 cfs. After mitigation, the possible 100 year-3 hour peak flow will be 469 cfs, a reduction of 87%. Redirection of Bald Eagle Creek generates a 100 year-3 hour peak flow of 1,676 cfs. After mitigation at the discharge point the peak flow will be 1,018 cfs, a reduction of 39%. This discharge enters an existing watercourse generating 1,137 cfs in the pre-mining condition, a reduction in peak flow will occur due to the Eagle Mountain Landfill Project.

Two main tributaries cross Planning Area No. 3. In the pre-mining condition, the western tributary generated a 100 year - 3 hour peak flow of 674 cfs. The ultimate landfill development reduces this flow to 431 cfs, a reduction of 36%. The southern tributary incorporates a reduction of 14%, a pre-mining peak flow of 568 cfs as compared to 488 cfs in the landfill developed condition.

In all cases a reduction in peak flow has occurred. The following charts illustrate peak flow characteristics in various stages of landfill development at key locations:

Drainage Location	Existing Condition 100 year, 3 hour Q		Developed Condition 100 year, 3 hour Q		
	Pre-Mining	Post-Mining	Stage 1	Stage 2	Ultimate
Discharging into West Bowl of East Pit	N/A	4729 cfs	4729 cfs	0 cfs	N/A
Discharging into East Bowl of East Pit	N/A	1120 cfs	1120 cfs	5689 cfs	N/A
Exiting Planning Area No. 2 Operational Facilities					
a. Eagle Creek/Bald Eagle Creek	4967 cfs	298 cfs	0 cfs	0 cfs	0 cfs
b. Site Drainage	N/A	298 cfs	538 cfs	538 cfs	538 cfs
1. Collected	N/A	N/A	230 cfs	230 cfs	230 cfs
2. Diverted	N/A	N/A	308 cfs	308 cfs	308 cfs
Draining into Location of Eagle Mountain Town Site					
a. Eagle Creek/Bald Eagle Creek	4967 cfs	298 cfs	0 cfs	0 cfs	0 cfs
b. Hills West of Townsite	567 cfs	567 cfs	567 cfs	567 cfs	567 cfs
Exiting Planning Area No. 3					
a. Northern Tributary	674 cfs	132 cfs	132 cfs	132 cfs	431 cfs
b. Southern Tributary	568 cfs	212 cfs	212 cfs	212 cfs	488 cfs

100 YEAR, 3 HOUR PEAK FLOWS DRAINING OFFSITE						
Drainage Course	Existing Condition		Ultimate Developed Condition		Future Outlet Point	
	Pre-Mining	Post-Mining	Non-Mitigated Flow	Possible Mitigated Flow	Pre-Mining	Post-Mining
Eagle Creek	3752 cfs	298 cfs	3788 cfs	469 cfs	298 cfs	298 cfs
Bald Eagle Creek	1409 cfs	0 cfs	1676 cfs	1018 cfs	1137 cfs	317 cfs
Planning Area No. 3						
Northern Tributary	674 cfs	132 cfs	431 cfs	431 cfs	674 cfs	132 cfs
Southern Tributary	568 cfs	212 cfs	488 cfs	488 cfs	568 cfs	212 cfs

DETENTION BASIN MITIGATION				
Basin	Location	Total Storage Capacity	100 year, 3 hour Flow Entering Basin	100 year, 3 hour Flow Exiting Basin
A	West of Planning Area No. 2	50 Ac. Ft.	3493 cfs	2429 cfs
B	West of Planning Area No. 2	50 Ac. Ft.	2947 cfs	2362 cfs
E, F	South West Corner of Planning Area No. 5	102 Ac. Ft. 45 Ac. Ft.	2599 cfs	1529 cfs
G	Planning Area No. 4	346 Ac. Ft.	1527 cfs	469 cfs
H	North East Corner of Planning Area No. 6	33 Ac. Ft.	1676 cfs	1018 cfs

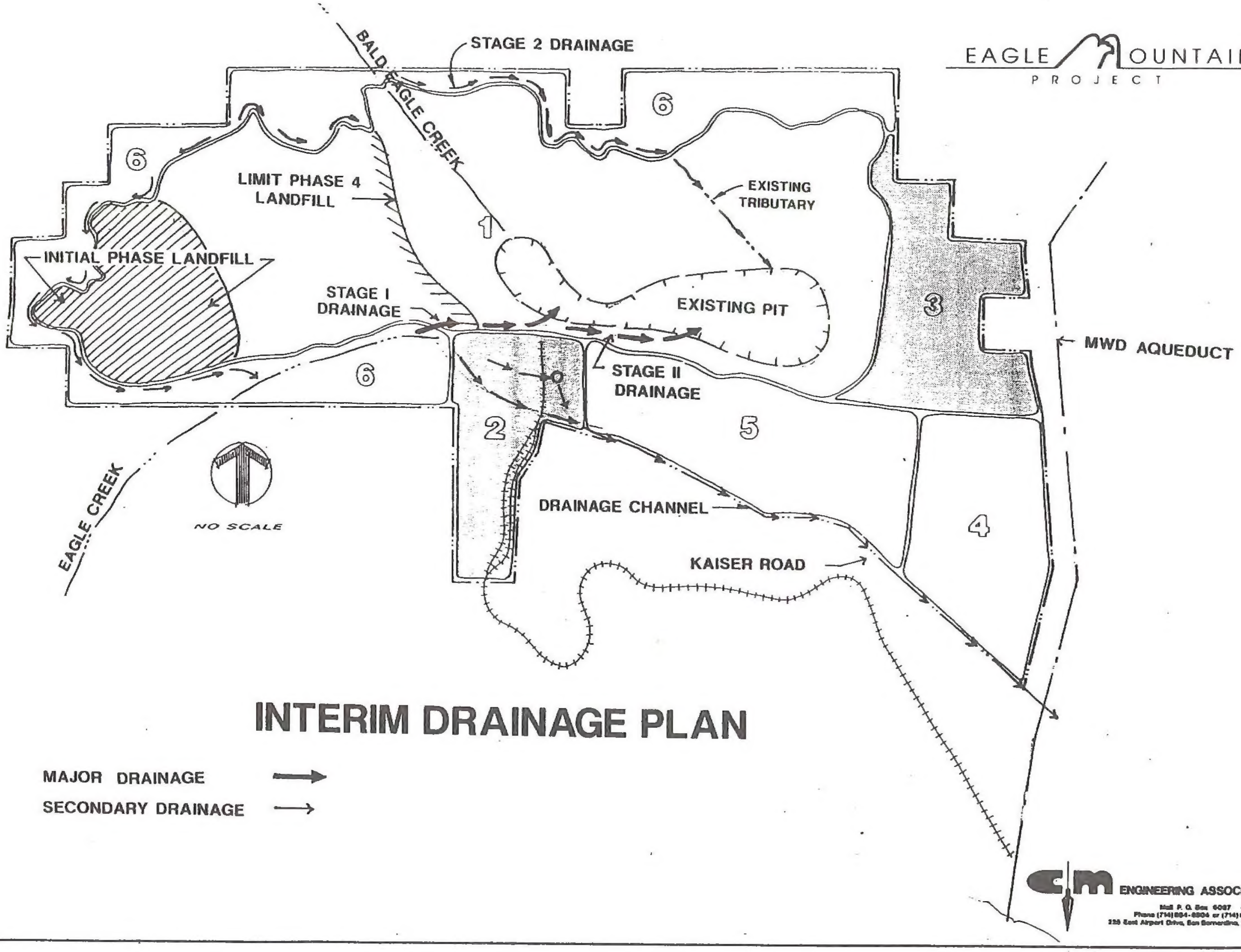
Reduction of velocities is also a major concern when considering the redirection of watercourses. Storm channel designs will incorporate rip-rap walls and rock cut-off walls when velocities are erosive as well as rip-rap energy dissipators at discharge points in order to protect downstream facilities and properties.

The Drainage Plan will incorporate designs which prevent natural drainage from contacting landfill operations. This concept will minimize possible contamination of drainage due to landfill operations. Drainage from landfill operational areas will be collected and tested for possible contaminants. Runoff will be treated, if necessary, and routed into storm channels per applicable provisions of the National Pollutant Discharge Elimination System (NPDES).

These concerns have been incorporated into the Eagle Mountain Drainage Plan. The Plan is designed to minimize adverse effect due to the development of the Eagle Mountain Landfill Project and to protect downstream facilities and properties while maintaining surface water quality.

(Reports\31021)

EAGLE MOUNTAIN
PROJECT



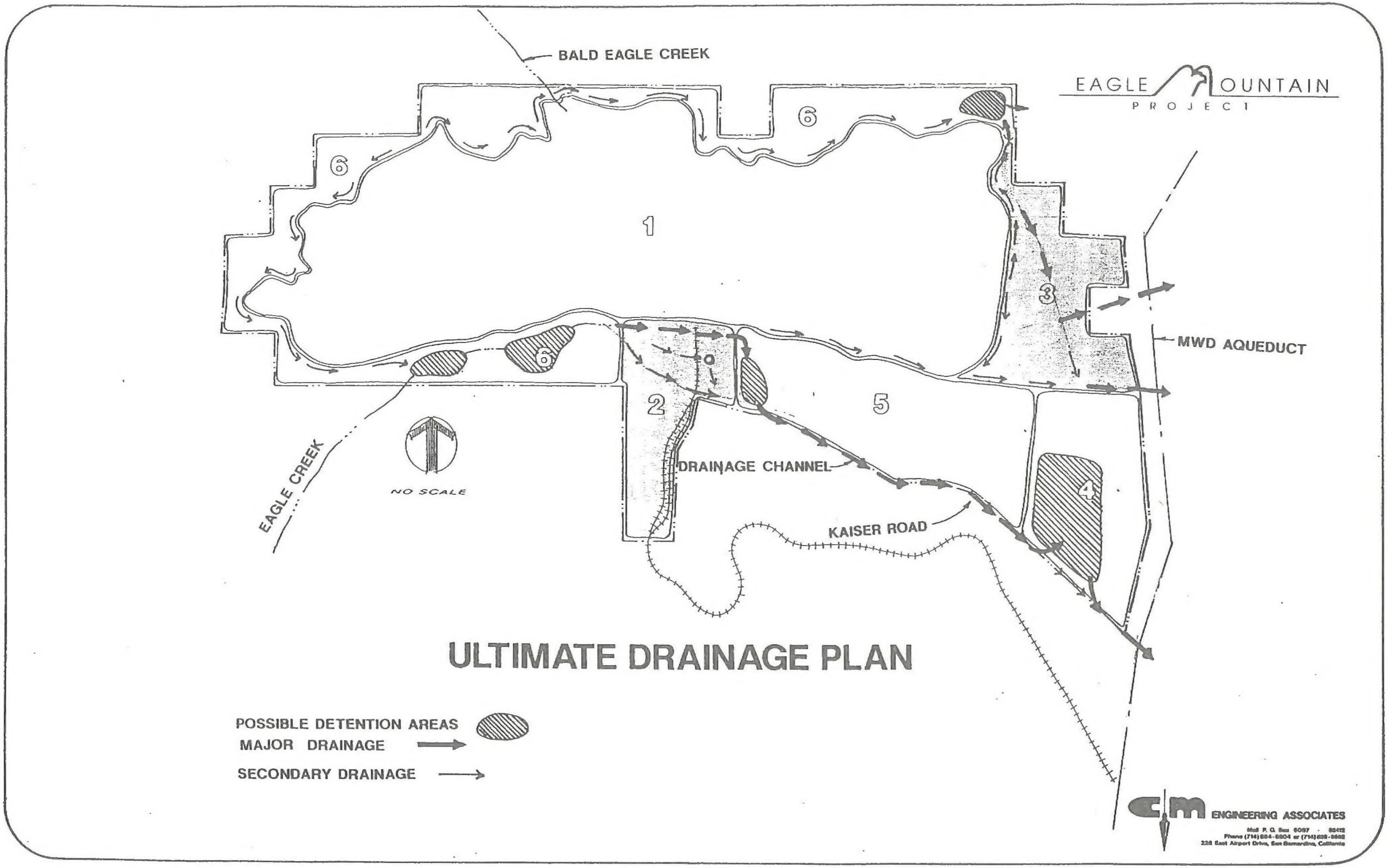
INTERIM DRAINAGE PLAN

MAJOR DRAINAGE ⟶

SECONDARY DRAINAGE →

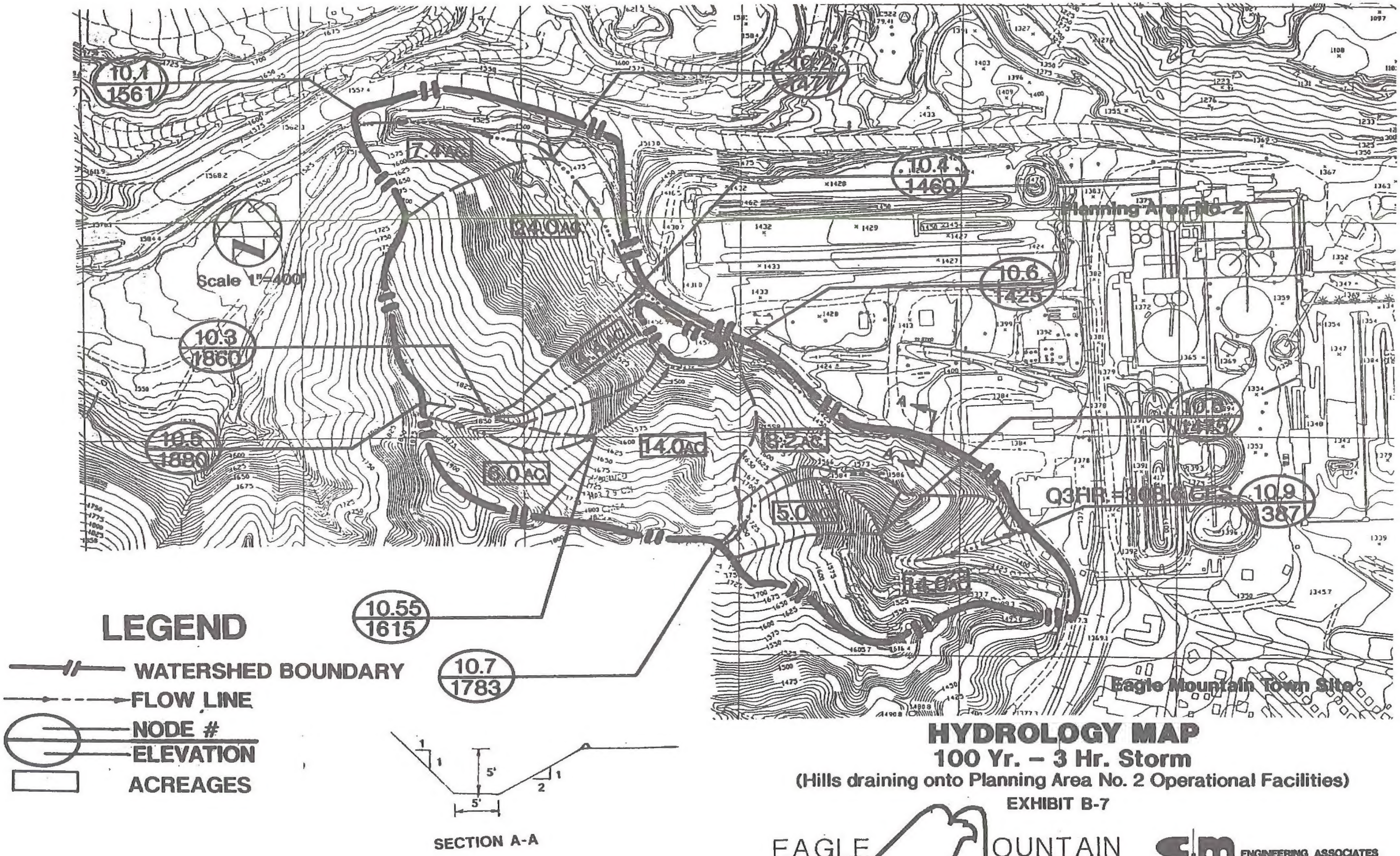
ENGINEERING ASSOCIATES
Mail P. O. Box 6087 · 92412
Phone (714) 884-8804 or (714) 825-6062
325 East Airport Drive, San Bernardino, California

FIGURE A-1



ULTIMATE DRAINAGE PLAN

FIGURE A-2



HYDROLOGY MAP

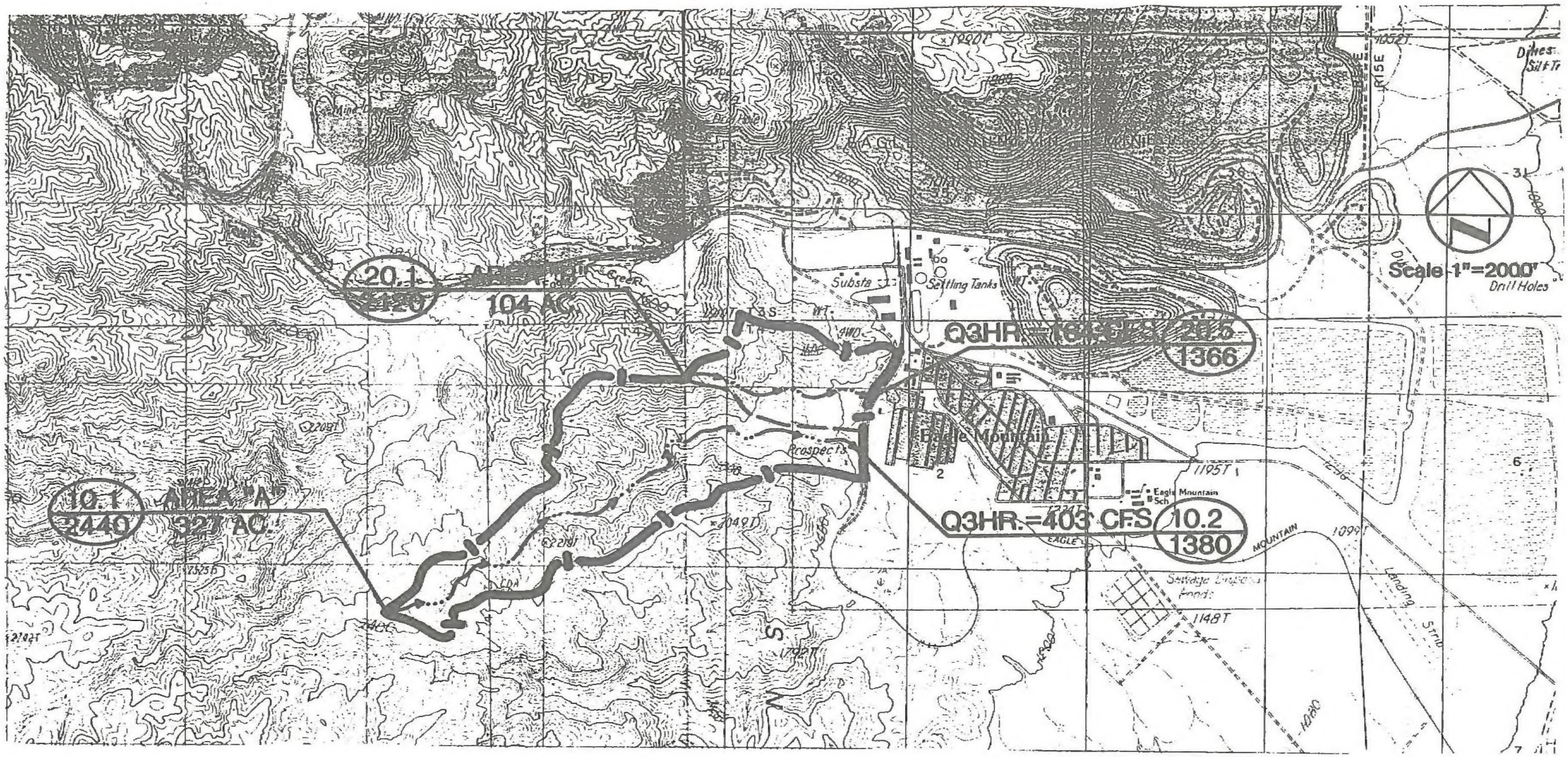
100 Yr. – 3 Hr. Storm

(Hills draining onto Planning Area No. 2 Operational Facilities)

EXHIBIT B-7

EAGLE MOUNTAIN
PROJECT

CM ENGINEERING ASSOCIATES
Mail P. O. Box 6067 · 92412
Phone (714) 884-8804 or (714) 825-5582
236 East Airport Drive, San Bernardino, California



LEGEND

WATERSHED BOUNDARY

FLOW LINE

NODE #

ELEVATION

HYDROLOGY MAP

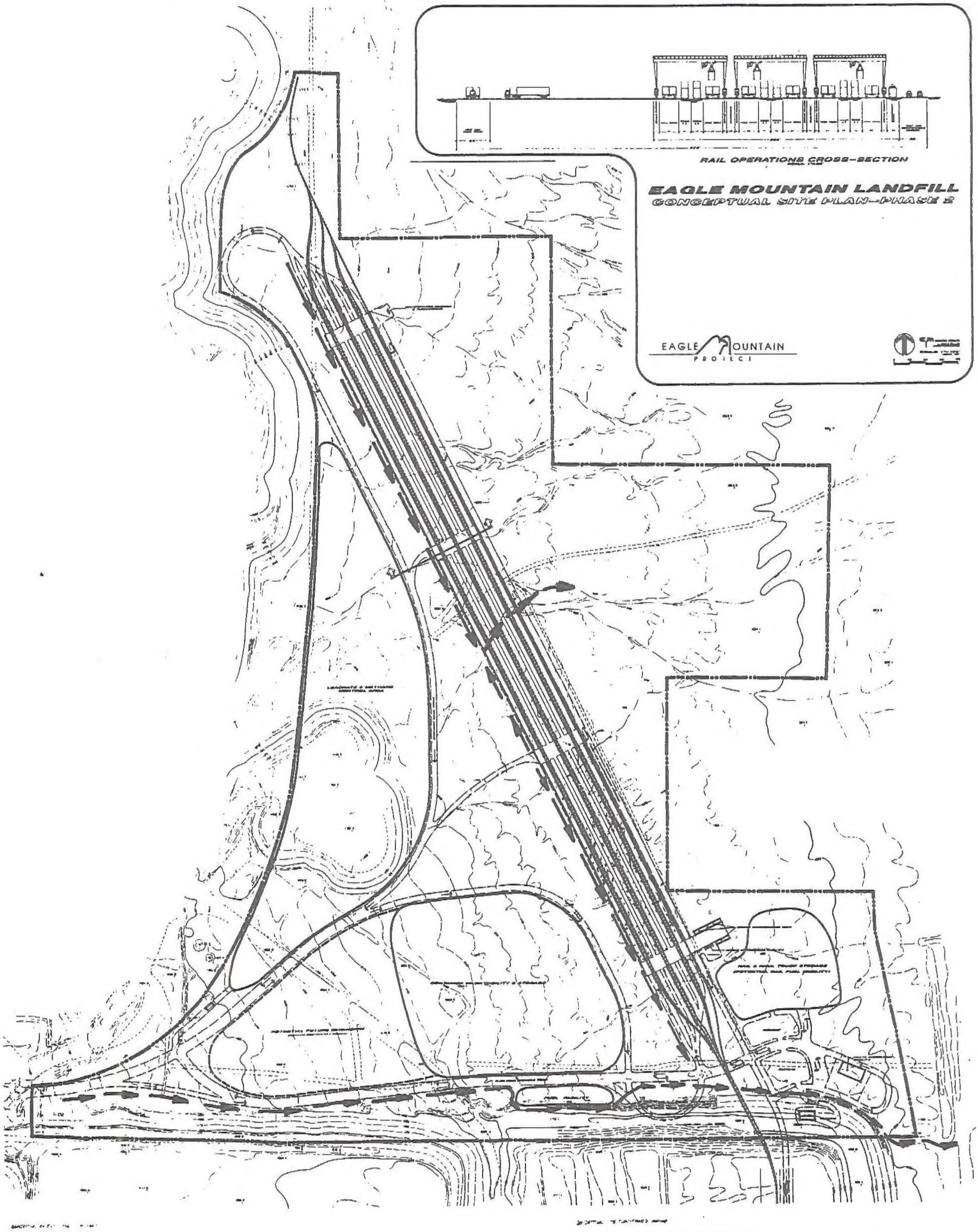
100 Yr. – 3 Hr. Storm

(Hills draining toward existing railroad – East of Eagle Mountain Town Site)

EXHIBIT B-8

EAGLE MOUNTAIN
PROJECT

ENGINEERING ASSOCIATES
Mail P. O. Box [illegible]
Phone (714) [illegible] or (714) [illegible]
[illegible] East Airport Drive, San Bernardino, California



PLANNING AREA NO. 3
DRAINAGE MAP
EXHIBIT B-9

→ → DRAINAGE PATTERN

APPENDIX M

UPDATED AIR QUALITY INFORMATION

APPENDIX M

ATTACHMENT 1

MEASURES OF SIGNIFICANCE FOR CRITERIA POLLUTANTS

Table 14

Eagle Mountain Project
Measures of Significance for Hydrocarbons/Ozone

Agency	Level	Abbreviation	Comment
Hydrocarbon and NOx Emissions Based Measures - Industrial Sources			
South Coast AQMD	0 lbs/day	AQMD BACT	level above which BACT is reqd. for new/mod facility
South Coast AQMD	0 lbs/day	AQMD offsets	level above which offsets are required
South Coast AQMD	100 tons/year	AQMD major NSR	definition of major stationary source (NSR)
South Coast AQMD	25 tons/year	AQMD major PSD	definition of major stationary source (PSD)
South Coast AQMD	25 tons/year	AQMD sig incr PSD	definition of significant emission increase (PSD)
EPA	100 tons/year	EPA major source	definition of major stationary source
EPA	40 tons/year	EPA major mod	definition of major modification
Ozone Measurement Accuracy and Reporting Precision			
CARB	0.54 pphm	ARB accuracy	ARB measured accuracy of 6.0% times 9 pphm standard
CARB	1 pphm	ARB reporting	precision to which ARB reports concentrations
Other Measures			
none	0 lbs/day	Zero molecule	the zero molecule theory (see text)

Table 15

Eagle Mountain Project
Measures of Significance for Oxides of Nitrogen

Agency	Level	Abbreviation	Comment
Emissions Based Measures - Industrial Sources			
South Coast AQMD	0 lbs/day	AQMD BACT	level above which BACT is reqd. for new/mod facility
South Coast AQMD	0 lbs/day	AQMD offsets	level above which offsets are required
South Coast AQMD	100 tons/year	AQMD major NSR	definition of major stationary source (NSR)
South Coast AQMD	25 tons/year	AQMD major PSD	definition of major stationary source (PSD)
South Coast AQMD	25 tons/year	AQMD sig incr PSD	definition of significant emission increase (PSD)
EPA	100 tons/year	EPA major source	definition of major stationary source
EPA	40 tons/year	EPA major mod	definition of major modification
Concentration Based Measures - Industrial Sources			
South Coast AQMD	10 ug/m3 ann	AQMD Class I ann	allowable increment for Class I areas (parks)
EPA	10 ug/m3 ann	EPA Class I ann	significant impact on a Class I area
EPA	14 ug/m3 ann	EPA de minimus ann	level below which ambient monitoring is not required
EPA	1 ug/m3 ann	EPA sig ann	significant air quality impact in nonattainment areas
Measurement Accuracy and Reporting Precision			
CARB	0.18 pphm 1-hr	ARB accuracy 1h	ARB measured accuracy of 0.7% times 25 pphm standard
CARB	1 pphm 1-hr	ARB report 1h	precision to which ARB reports concentrations
CARB	0.1 pphm ann	ARB report ann	precision to which ARB reports concentrations
Other Measures			
none	0 lbs/day	Zero molecule	the zero molecule theory (see text)

Revised 12/19/91

Table 16

Eagle Mountain Project
Measures of Significance for Carbon Monoxide

Agency	Level	Abbreviation	Comment
Emissions Based Measures - Industrial Sources			
South Coast AQMD	0 lb/day	AQMD BACT	level above which BACT is reqd. for new/mod facility
South Coast AQMD	0 lbs/day	AQMD offset	level above which offsets are required
South Coast AQMD	100 tons/year	AQMD major NSR	definition of major stationary source (NSR)
South Coast AQMD	25 tons/year	AQMD major PSD	definition of major stationary source (PSD)
South Coast AQMD	25 tons/year	AQMD sig incr PSD	definition of significant emission increase (PSD)
EPA	100 tons/year	EPA major source	definition of major stationary source
EPA	100 tons/year	EPA major mod	definition of major modification
Concentration Based Measures - Industrial Sources			
EPA	1 ug/m3 24-hr	EPA Class I 24h	significant impact on a Class I area
EPA	575 ug/m3 8-hr	EPA de minimus 8h	level below which ambient monitoring is not required
EPA	500 ug/m3 8-hr	EPA sig 8h	significant impact in nonattainment areas
EPA	2000 ug/m3 1-hr	EPA sig 1h	significant impact in nonattainment areas
Measurement Accuracy and Reporting Precision			
CARB	0.02 ppm 1-hr	ARB accuracy 1h	ARB measured accuracy of 0.1% times 20 ppm standard
CARB	1 ppm 1-hr	ARB report 1h	precision to which ARB reports concentrations
CARB	0.1 ppm 8-hr	ARB report 8h	precision to which ARB reports concentrations
Other Measures			
none	0 lbs/day	Zero molecule	the zero molecule theory (see text)

Table 17

Eagle Mountain Project
Measures of Significance for Sulfur Dioxide

Agency	Level	Abbreviation	Comment
Emissions Based Measures - Industrial Sources			
South Coast AQMD	0 lbs/day	AQMD BACT	level above which BACt is reqd. for new/mod facility
South Coast AQMD	0 lbs/day	AQMD offsets	level above which offsets are required
South Coast AQMD	100 tons/year	AQMD major NSR	definition of major stationary source (NSR)
South Coast AQMD	25 tons/year	AQMD major PSD	definition of major stationary source (PSD)
South Coast AQMD	25 tons/year	AQMD sig incr PSD	definition of significant emission increase (PSD)
EPA	100 tons/year	EPA major source	definition of major stationary source
EPA	40 tons/year	EPA major mod	definition of major modification
Concentration Based Measures - Industrial Sources			
South Coast AQMD	2 ug/m3 ann	AQMD Class I ann	allowable increment for Class I areas (parks)
South Coast AQMD	5 ug/m3 24-hr	AQMD Class I 24h	allowable increment for Class I areas (parks)
South Coast AQMD	25 ug/m3 3-hr	AQMD Class I 3h	allowable increment for Class I areas (parks)
EPA	2 ug/m3 ann	EPA Class I ann	allowable increment for Class I areas (parks)
EPA	5 ug/m3 24-hr	EPA Class I 24h	allowable increment for Class I areas (parks)
EPA	25 ug/m3 3-hr	EPA Class I 3h	allowable increment for Class I areas (parks)
EPA	13 ug/m3 24-hr	EPA de minimus 24h	level below which ambient monitoring is not required
EPA	1 ug/m3 ann	EPA sig ann	significant air quality impact in nonattainment areas
EPA	5 ug/m3 24-hr	EPA sig 24h	significant air quality impact in nonattainment areas
EPA	25 ug/m3 3-hr	EPA sig 3h	significant air quality impact in nonattainment areas
Measurement Accuracy and Reporting Precision			
CARB	0.33 pphm 1-hr	ARB accuracy 1h	ARB measured accuracy of 1.3% times 25 pphm standard
CARB	1 pphm 1-hr	ARB reporting 1h	precision to which ARB reports concentrations
Other Measures			
none	0 lbs/day	Zero molecule	the zero molecule theory (see text)

Table 18

Eagle Mountain Project
Measures of Significance for Fine Particulates (PM10)

Agency	Level	Abbreviation	Comment
Emissions Based Measures - Industrial Sources			
South Coast AQMD	0 lbs/day	AQMD BACT	level above which BACT is reqd. for new/mod facility
South Coast AQMD	0 lbs/day	AQMD offsets	level above which offsets are required
South Coast AQMD	100 ton/year	AQMD major NSR	definition of major stationary source (NSR)
South Coast AQMD	25 tons/day	AQMD major PSD	definition of major stationary source (PSD)
South Coast AQMD	15 ton/year	AQMD sig incr PSD	definition of significant emission increase (PSD)
EPA	100 tons/year	EPA major source	definition of major stationary source
EPA	15 tons/year	EPA major mod	definition of major modification
Concentration Based Measures - Industrial Sources			
South Coast AQMD	5 ug/m3 ann	AQMD Class I ann	allowable increment for Class I areas (parks)
South Coast AQMD	10 ug/m3 24-hr	AQMD Class I 24h	allowable increment for Class I areas (parks)
EPA	5 ug/m3 ann	EPA Class I ann	allowable increment for Class I areas (parks)
EPA	10 ug/m3 24-hr	EPA Class I 24h	allowable increment for Class I areas (parks)
EPA	10 ug/m3 24-hr	EPA de minimus 24h	level below which ambient monitoring is not required
EPA	1 ug/m3 ann	EPA sig ann	definition of a significant air quality impact
EPA	5 ug/m3 24-hr	EPA sig 24h	definition of a significant air quality impact
Measurement Accuracy and Reporting Precision			
CARB	1.2 ug/m3 24-hr	ARB accuracy 24h	ARB measured accuracy of 2.4% times 50 ug/m3 std.
CARB	1 ug/m3 24-hr	ARB reporting 24h	precision to which ARB reports concentrations
CARB	0.1 ug/m3 ann	ARB reporting ann	precision to which ARB reports concentrations
Other Measures			
none	0 lbs/day	Zero molecule	the zero molecule theory (see text)

ATTACHMENT 2

TABLES AND FIGURES CONTAINING DATA REFERRED TO IN RESPONSES TO LETTERS OF COMMENT

Figure FEIR-AQ-1

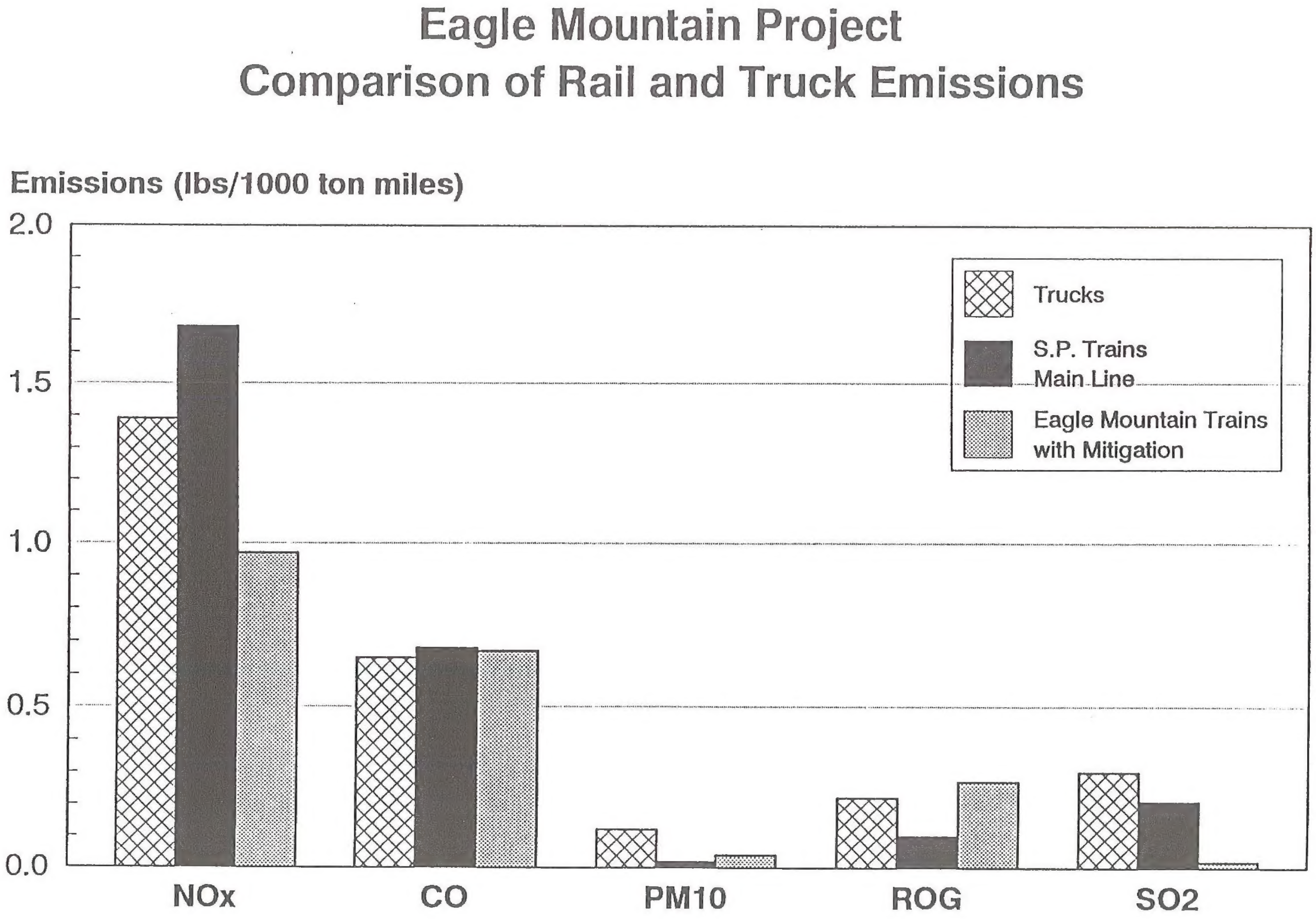
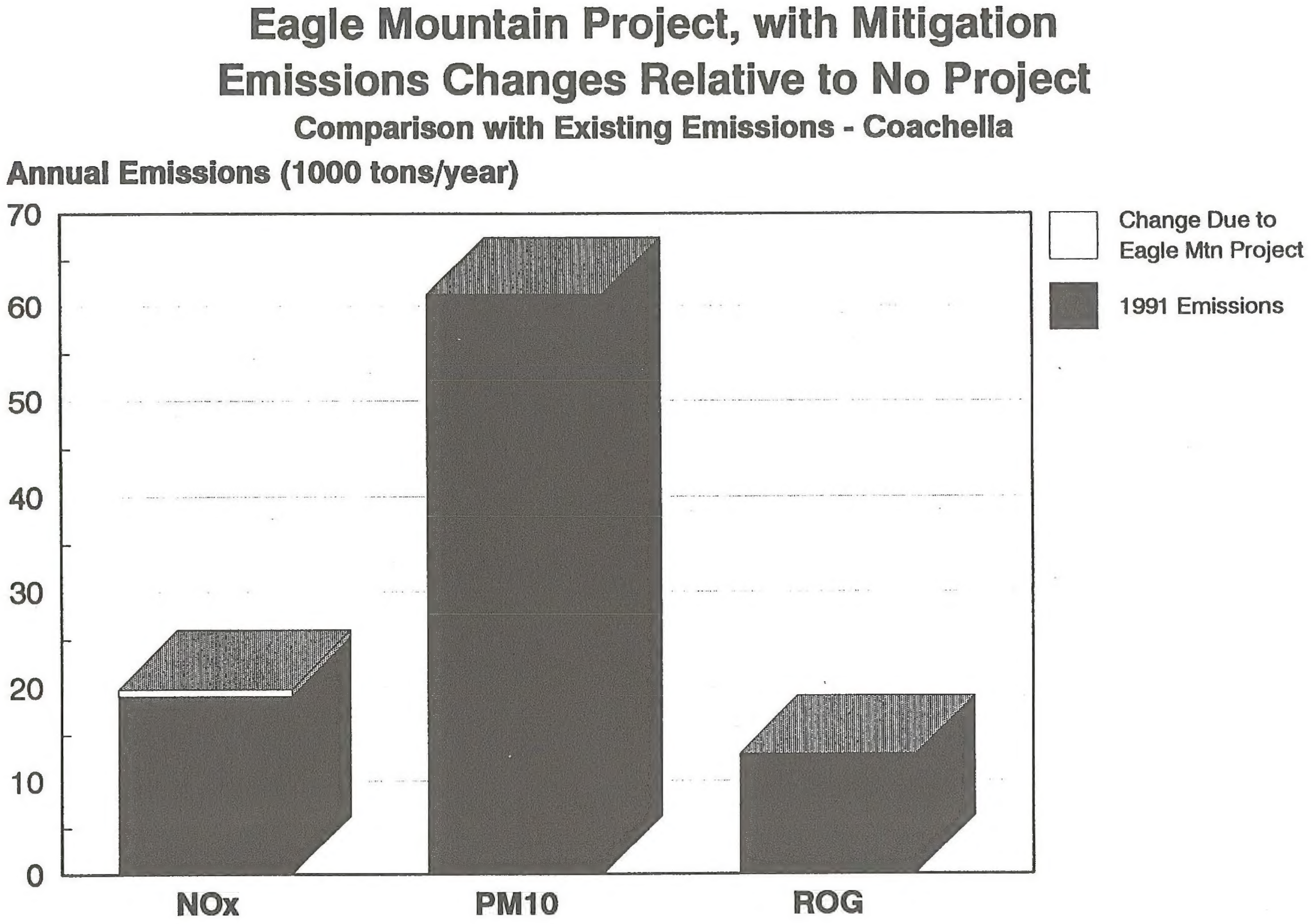

Eagle Mountain Project
Comparison of Rail and Truck Emissions

Figure referenced in Responses 0001-90, 0003-5 and 0164-9

Figure FEIR-AQ-2



Eagle Mountain Project, with Mitigation
Emissions Changes Relative to No Project
Comparison with Existing Emissions - Coachella

Figure referenced in Responses 0049-3, 0102-23b and 0117-3

Figure FEIR-AQ-3

Eagle Mountain Project, with Mitigation Emissions Changes Relative to No Project

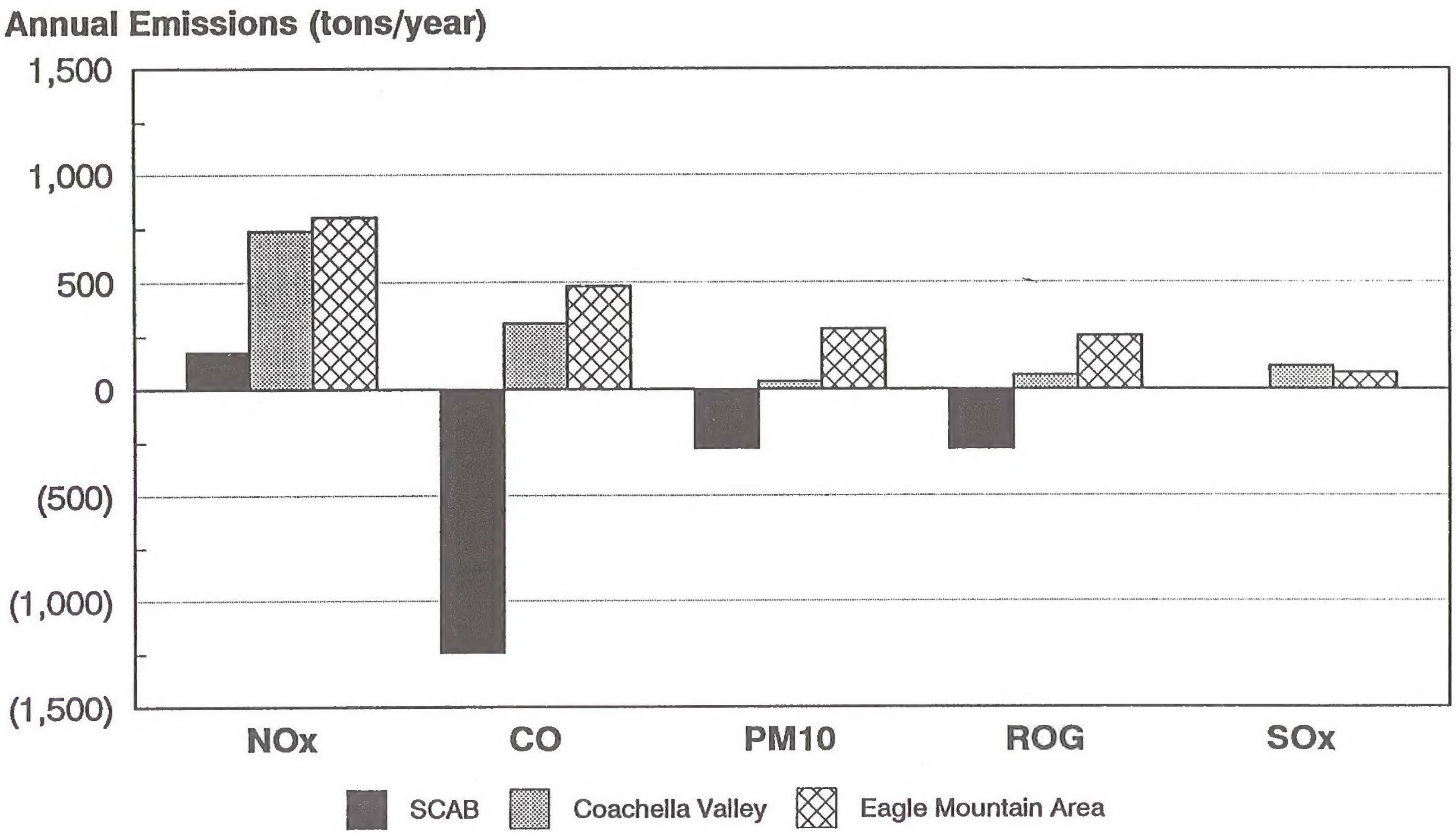
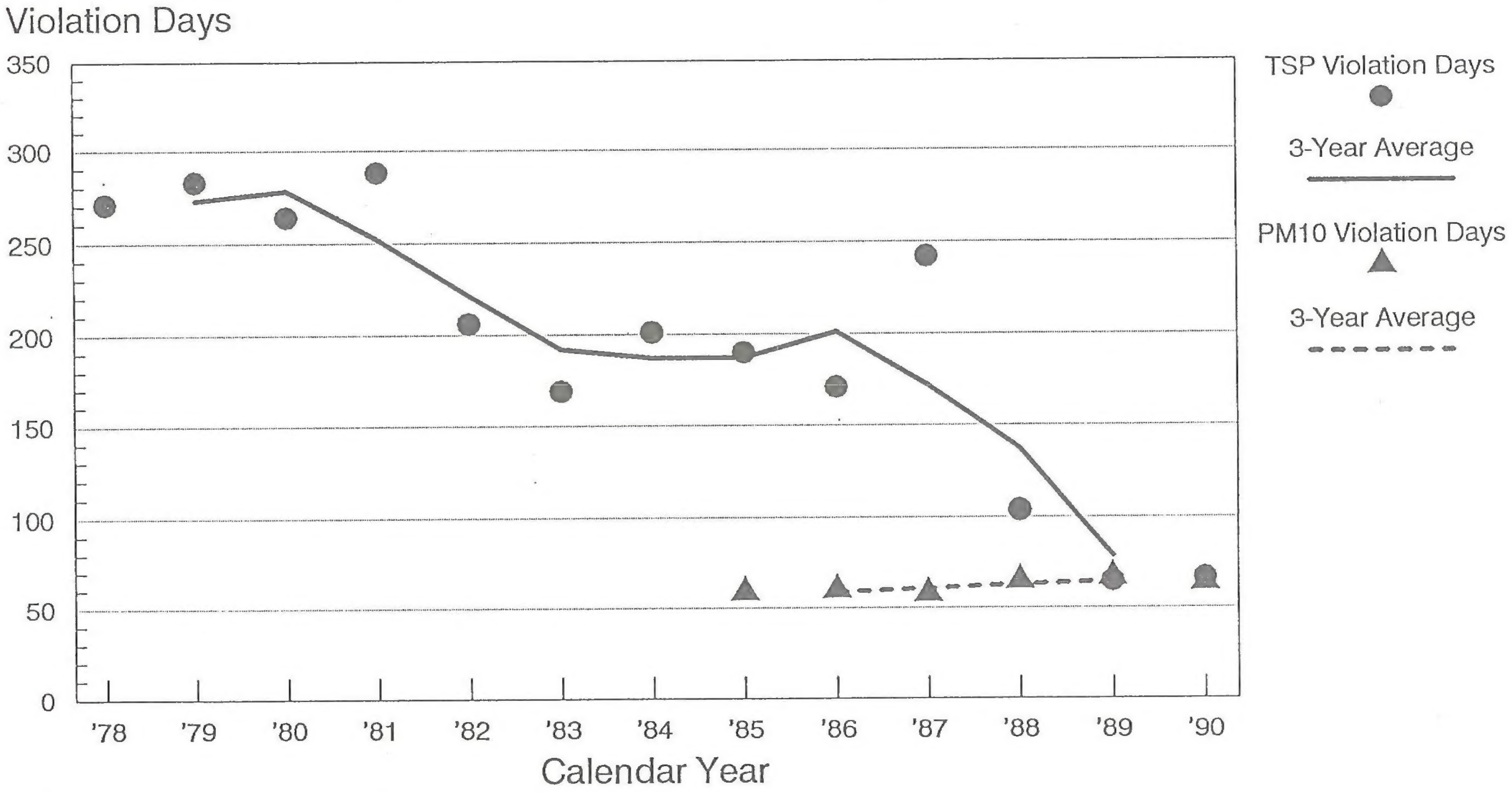


Figure referenced in Responses 0049-3 and 0102-23b and 0117-3

Figure FEIR-AQ-4

Violations of the California 24-Hr Particulate Standards (TSP and PM10) South Coast Air Basin, 1978-1990



In 1984, the TSP standard of 100 micrograms per per cubic meter was replaced by a PM10 standard of 50 micrograms per cubic meter.

Figure referenced in Response 0147-13

Figure FEIR-AQ-5

Maximum 24-Hour Average PM10 Levels in Southern California, 1973-1990

(3-Year Average)

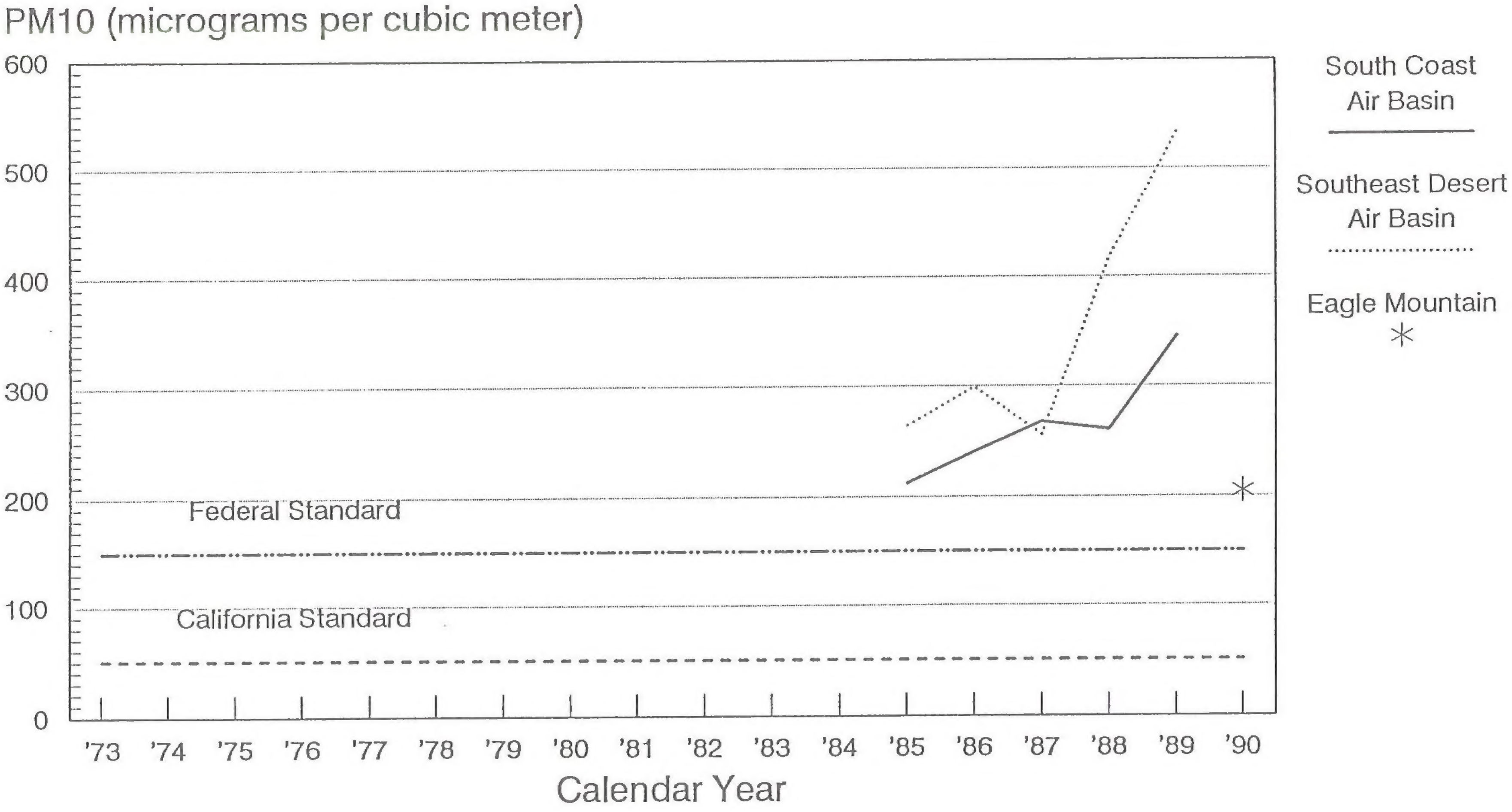


Figure referenced in Response 0147-13

Figure FEIR-AQ-6

Annual Average PM10 Levels in the Coachella Valley, 1973-1990

(3-Year Average)

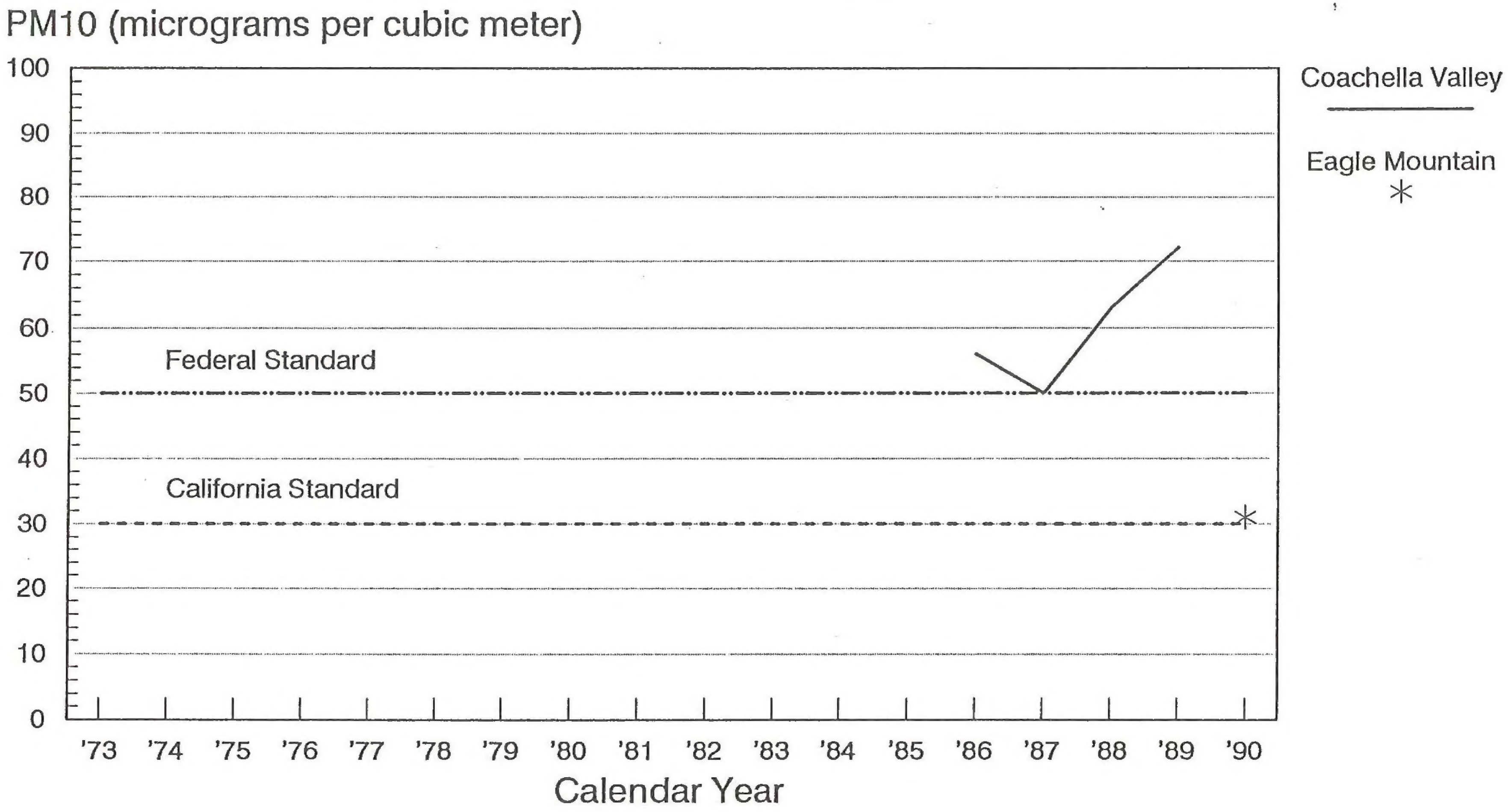


Figure referenced in Response 0147-13

Table FEIR-AQ-1A
Comparison of Project Alternatives
(tons/yr)

Project Alternatives	NOx	CO	PM_{10}	VOC	SO_2
Proposed Project - without mitigation	3231	1312	419	424	466
Proposed Project - with mitigation	2724	1280	366	406	322
Reduced Operation - without mitigation	2685	1107	356	373	390
Reduced Operation - with mitigation	2273	1077	316	359	272
Rail Only - without mitigation	2919	1185	357	388	415
Rail Only - with mitigation	2460	1159	312	372	281
No Project	1008	1729	323	368	142

Table referenced in Response 0003-12

Table FEIR-AQ-1B
Comparison of Truck VMT and Emissions for Project Alternatives

Project Alternative	VMT (x 10^6)	NOx tons/yr	CO tons/yr	PM_{10} tons/yr	ROG tons/yr	SO_2 tons/yr
No Project	4.0	61	29	9	10	13
Eagle Mtn. No Mit.	10.9	189	89	27	29	39
Eagle Mtn. With Mit.	10.9	189	89	27	29	39
Reduced Operation No Mit.	5.5	94	45	14	15	19
Reduced Operation With Mit.	5.5	94	45	14	15	19
Rail Only No Mit.	0.0	0	0	0	0	0
Rail Only With Mit.	0.0	0	0	0	0	0

Table referenced in Response 0003-13

Table FEIR-AQ-2

SCAQMD Recommended Mitigation Measures for Dust Control			
No.	Description	Included in DEIR/EIS?	Comment
A-1	Cover trucks during on-road hauling and/or maintain a 2-foot freeboard height.	No	N/A for containerized waste trucks; added in Final EIR/EIS for cover and liner haul trucks when operating on-site.
A-2	Provide soil binders on site, unpaved roads, parking areas.	Yes AQ-19	
A-3	Wash off trucks and their wheels when leaving site.	No.	Added in Final EIR/EIS for trucks which have traveled on unpaved roads.
C-1	Provide paved parking areas. Traffic speeds on unpaved road surfaces should be reduced to less than 15 miles per hour to reduce dust emissions.	Partial AQ-20	Other mitigation measures require wetting or dust control agents; speed restriction not practicable.
C-2	Cease site restoration activity during Stage 1 and 2 episodes, and on days when winds exceed 25 miles per hour.	No	Not feasible for waste disposal activities.
C-3	Operate street-sweepers on paved roads within the site area.	Yes AQ-21	
C-4	Ensure early paving of construction roads. Provide chemical stabilization of blowsand areas adjacent to paved roadways.	Partial AQ-19; AQ-20	In Final EIR/EIS, added requirement for chemical stabilization of blowsand areas adjacent to paved roads.
C-5	All excavation, grading, and soil removal operations should comply with District Rule 403.	Yes Appendix E, p. 102	Added to list of mitigation measures in Final EIR/EIS

Table FEIR-AQ-2 (cont.)

SCAQMD Recommended Mitigation Measures for Dust Control			
E-1	*Spread soil binders on site, unpaved roads, and parking areas; reestablish ground cover through seeding and watering.*	*Partial AQ-18; AQ-19; AQ-20*	*No ground cover to reestablish at site.*
E-2	*Work relative to grading, soil dumping and dust-generation should be suspended during first and second stage smog alerts and when winds are over 25 miles per hour.*	*No*	*Not feasible for waste disposal operations.*
E-3	*Sweep streets if dirt is carried over to adjacent public thoroughfares. Streets should be inspected for dirt every day.*	*No*	*Added in Final EIR/EIS.*
E-4	*Provide chemical stabilization of blowsand areas adjacent to paved roadways. Ensure early paving of construction roads.*	*Partial AQ-20*	*In Final EIR/EIS, added requirement for chemical stabilization of blowsand areas adjacent to paved roads.*
E-5	*Provide snow fence windbreaks and tree windbreaks. Tree planting should be used as wind-barriers in areas designated as open space to prevent wind erosion and dust.*	*No*	*Not feasible for the rocky terrain and exposed areas surrounding the project site.*
E-6	*Provide paved parking areas. Traffic speeds on unpaved road surfaces should be reduced to less than 15 miles per hour to reduce dust emissions.*	*Partial AQ-20*	*Other mitigation measures require wetting or dust control agents; speed restriction not practicable.*

Table referenced in Responses 0003-29, 31, 33, 34, 43, 58, 0102-25, 0117-4
0157-22, and 0160-4

TABLE FEIR-AQ-3
EAGLE MOUNTAIN LANDFILL PROJECT ESTIMATED EMISSIONS FROM GASOLINE AND DIESEL STORAGE AND DISPENSING

		Emission Factor Uncontrolled Working Losses (lb/1000 gal)	Emission Factor Controlled Working Losses (lb/1000 gal)	Working Emiss. (lbs)	Emission Factor Breathing Losses (lb/1000 gal)	Breathing Emissions (lbs)	Emission Factor Uncontrolled Displacement Losses (lb/1000 gal)	Emission Factor Controlled Displacement Losses (lb/1000 gal)	Displace. Emissions (lbs)	Emission Factor Spillage (lb/1000 gal)	Spillage Emiss. (lbs)	Total Emiss. (lbs)
Gasoline												
Max. Daily Input	3,750 gal/day	7.3	0.37	1.4		0.1						1.5
Max. Daily Output	100 gal/day						11.0	0.55	0.1	0.7	0.1	0.1
Annual Throughput	36,500 gal/yr	7.3	0.37	13.3	1.0	36.5	11.0	0.55	20.1	0.7	25.6	95.4
Diesel												
Max. Daily Input	82,500 gal/day	0.022		1.9		0.3						2.2
Max. Daily Output	16,648 gal/day						0.053		0.9	0.002	0.03	0.9
Annual Throughput	6,076,520 gal/yr	0.022		136.5	0.019	113.7	0.053		320.8	0.002	10.4	581.5

Facility Total	
Max. Daily	4.7
Annual	676.9

SOURCES:
(1) Gasoline factors - AP-42 Table 4.4-7 with 95% control of filling and displacement losses.
(2) Diesel working losses - AP-42 Page 4.3-8 Equation 2
(3) Diesel breathing losses - AP-42 Page 4.3-5 Equation 1
(4) Diesel displacement losses - AP-42 Page 4.4-5 Equation 1
(5) Diesel spillage losses - gasoline factor adjusted for differences in product density and vapor pressure

NOTES:
(1) Daily maximum gasoline input based on 3/4 of 5000 gallon tank filled at one time. Annual throughput based on pumping 100 gal/day for 365 days/yr.
(2) Daily maximum Diesel input based on 3/4 of total storage (110,000 gallons) filled at one time
(3) Annual throughput based on pumping 16,650 gal/day, 365 days/yr
(4) Total Diesel on-site storage of 110,000 gallons allows 6 days of facility operation before refueling of main storage tanks
(5) Daily breathing emissions for gasoline based on annual losses divided by 365
(6) Daily working and breathing emissions for Diesel fuel based on annual losses divided by 365

Table referenced in Response 0003-36

Table FEIR-AQ-4

Emission Reductions Associated with Electrification

	NOx	*CO*	*PM10*	*VOC*	*SO2*
Overhead Crane					
lbs/day	*150.05*	*60.14*	*10.85*	*7.11*	*11.23*
tons/year	*27.38*	*10.98*	*1.98*	*1.30*	*2.05*
Pug Mill					
lbs/day	*32.94*	*15.02*	*2.96*	*3.62*	*3.06*
tons/year	*6.01*	*2.74*	*0.54*	*0.66*	*0.56*
Total					
lbs/day	*182.99*	*75.16*	*13.81*	*10.73*	*14.29*
tons/year	*33.39*	*13.72*	*2.52*	*1.96*	*2.61*

Table referenced in Responses 0003-44, 0102-27, 0117-6 and 0164-1a

Table FEIR-AQ-5

Emission Reductions Associated with Rail Electrification

	NOx	CO	PM10	VOC	SO2
Eagle Mtn. Railway (without mitigation)					
lbs/day	2762	1110	116	432	487
tons/year	504	203	21	79	89
Eagle Mtn. Railway (with mitigation)					
lbs/day	1608	1110	91	432	49
tons/year	294	203	17	79	9
Eagle Mtn. Railway (with SCR system)					
lbs/day	534	1110	91	432	49
tons/year	98	203	17	79	9
Eagle Mtn. Railway (using natural gas)					
lbs/day	534	362	1	118	1
tons/year	98	66	0	21	0

Table referenced in Responses 0003-44, 0102-27, 0117-6, 0117-7, 0122-2, 0157-24, and 0164-7

Table FEIR-AQ-6

Eagle Mountain Project, with Mitigation
Comparison with Existing Emissions in Coachella Valley
(tons/yr)

Source	*NOx*	PM_{10}	*ROG*
Proposed Project - Truck and Train Emissions in Coachella Valley	*739*	*37*	*65*
Existing Vehicle and Train Emissions - Coachella Valley 1991 Estimate	*15,311*	*2,415*	*7,226*

Table referenced in Responses 0001-77 and 0083-1

Table FEIR-AQ-7

Comparison of Daily Emissions Between the Eagle Mountain and Rail-Cycle Projects

Activity	Eagle Mountain Project Total Project Emissions Proposed Project With Mitigation(1) (lb/day)					Ratio Between Daily Waste Stream for Rail-Cycle Project and Eagle Mountain Project	Ratio Between One-Way Rail Haul Trip for Rail-Cycle Project and Eagle Mountain Project	Rail-Cycle Project Total Project Emissions (lb/day)				
	NOx	CO	PM10	VOC	SO2			NOx	CO	PM10	VOC	SO2
Offsite Sources:												
Transfer Stations	1380	596	121	125	107	1.05 (2)	N/A	1449	626	127	131	112
Trains	9728	4399	280	990	1082	1.31 (3)	1.08 (5)	13769	6227	396	1401	1532
On-Highway Trucks	1035	489	151	162	212	0.00 (4)	N/A	0	0	0	0	0
Subtotal, Offsite	12143	5484	552	1277	1401			15218	6852	523	1533	1644
Onsite Sources:												
Onsite Vehicle Exhaust	1600	713	97	103	52	1.05 (2)	N/A	1680	749	102	108	55
Onsite Fugitive Dust			684			1.05 (2)	N/A	0	0	718	0	0
Landfill Gas Flares	1182	816	676	845	310	1.05 (2)	N/A	1241	857	710	887	326
Subtotal, Onsite	2782	1529	1457	948	362			2921	1605	1530	995	380
PROJECT GRAND TOTAL	14925	7013	2009	2225	1763			18140	8458	2053	2528	2024

Footnotes:

(1) From Appendix E, page 132 of Draft EIR/EIS for Eagle Mountain Project assuming 356 days of operation per year

(2) Ratio between maximum amount of waste delivered each day to Rail-Cycle Project (21,000 tons/day) and to Eagle Mountain Project (20,000 tons/day)

(3) Ratio between maximum amount of waste transported by rail each day to Rail-Cycle Project (21,000 tons/day) and to Eagle Mountain Project (16,000 tons/day)

(4) Ratio between maximum amount of waste transported by on-highway truck each day to Rail-Cycle Project (0 tons/day) and to Eagle Mountain Project (4,000 tons/day)

(5) Ratio between one-way rail transport distance to Rail-Cycle Project (220 miles) and to Eagle Mountain Project (204 miles).
Distance to Rail-Cycle Project measured from South Pacific LA Transportation Center along Santa Fe track to the Town of Amboy, San Bernardino County.
Distance to Eagle Mountain Project measured from South Pacific LA Transportation Center along Southern Pacific and Eagle Mountain track to the Town of Eagle Mountain, Riverside County.

Table referenced in Response 0093-5

Table FEIR-AQ-8

Comparison of Annual Emissions Between the Eagle Mountain and Rail-Cycle Projects

Activity	Eagle Mountain Project Total Project Emissions Proposed Project With Mitigation(1) (ton/yr)					Ratio Between Daily Waste Stream for Rail-Cycle Project and Eagle Mountain Project	Ratio Between One-Way Rail Haul Trip for Rail-Cycle Project and Eagle Mountain Project	Rail-Cycle Project Total Project Emissions (ton/yr)				
	NOx	CO	PM10	VOC	SO2			NOx	CO	PM10	VOC	SO2
Offsite Sources:												
Transfer Stations	252	109	22	23	20	1.05 (2)	N/A	265	114	23	24	21
Trains	1775	803	51	181	197	1.31 (3)	1.08 (5)	2512	1137	72	256	279
On-Highway Trucks	189	89	27	29	39	0.00 (4)	N/A	0	0	0	0	0
Subtotal, Offsite	2216	1001	100	233	256			2777	1251	95	280	300
Onsite Sources:												
Onsite Vehicle Exhaust	292	130	18	19	9	1.05 (2)	N/A	307	137	19	20	9
Onsite Fugitive Dust			125			1.05 (2)	N/A	0	0	131	0	0
Landfill Gas Flares	216	149	123	154	57	1.05 (2)	N/A	227	156	129	162	60
Subtotal, Onsite	508	279	266	173	66			533	293	279	182	69
PROJECT GRAND TOTAL	2724	1280	366	406	322			3310	1544	375	462	369

Footnotes:

(1) From Appendix E, page 132 of Draft EIR/EIS for Eagle Mountain Project

(2) Ratio between maximum amount of waste delivered each day to Rail-Cycle Project (21,000 tons/day) and to Eagle Mountain Project (20,000 tons/day)

(3) Ratio between maximum amount of waste transported by rail each day to Rail-Cycle Project (21,000 tons/day) and to Eagle Mountain Project (16,000 tons/day)

(4) Ratio between maximum amount of waste transported by on-highway truck each day to Rail-Cycle Project (0 tons/day) and to Eagle Mountain Project (4,000 tons/day)

(5) Ratio between one-way rail transport distance to Rail-Cycle Project (220 miles) and to Eagle Mountain Project (204 miles).
Distance to Rail-Cycle Project measured from South Pacific LA Transportation Center along Santa Fe track to the Town of Amboy, San Bernardino County.
Distance to Eagle Mountain Project measured from South Pacific LA Transportation Center along Southern Pacific and Eagle Mountain track to the Town of Eagle Mountain, Riverside County.

Table referenced in Response 0093-5

Table FEIR-AQ-9 Comparison of Maximum Offsite Ambient Impacts from Proposed Project with Corresponding Class II Increments ($\mu g/m^3$)			
Pollutant and Averaging Time	Proposed Project Without Mitigation	Proposed Project With Mitigation	Class II Increment
NO_2 (annual)	20.5	4.6	25
SO_2 (3-hour)	51.6	26.7	512
SO_2 (24-hour)	8.8	6.6	91
SO_2 (annual)	1.8	0.7	20
PM_{10} (24-hour)	22.8	17.2	37
PM_{10} (annual)	2.8	1.7	19

Sierra Research
4/28/92

Table referenced in Response 0147-2

Table FEIR-AQ-10
Comparison of Maximum Offsite Ambient Impacts from Reduced Operation Alternative with Corresponding Class II Increments
($\mu g/m^3$)

Pollutant and Averaging Time	Reduced Operation Alternative Without Mitigation	Reduced Operation Alternative With Mitigation	Class II Increment
NO_2 (annual)	16.4	3.7	25
SO_2 (3-hour)	41.2	21.4	512
SO_2 (24-hour)	7.1	5.3	91
SO_2 (annual)	1.5	0.5	20
PM_{10} (24-hour)	18.3	13.8	37
PM_{10} (annual)	2.3	1.3	19

Sierra Research
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Table referenced in Responses 0147-2

Table FEIR-AQ-11
Comparison of Maximum Offsite Ambient Impacts from Rail Only Alternative with Corresponding Class II Increments
($\mu g/m^3$)

Pollutant and Averaging Time	Rail Only Alternative Without Mitigation	Rail Only Alternative With Mitigation	Class II Increment
NO_2 (annual)	16.4	3.7	25
SO_2 (3-hour)	41.2	21.4	512
SO_2 (24-hour)	7.1	5.3	91
SO_2 (annual)	1.5	0.5	20
PM_{10} (24-hour)	18.3	13.8	37
PM_{10} (annual)	2.3	1.3	19

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Table referenced in Response 0147-2

Table FEIR-AQ-12

Air Quality Impacts at a Typical Rail Crossing
Southern Pacific Rail Line
Single Train per Day
($\mu g/m^3$)

Pollutant	*1-hour Average*[1]	*24-hour Average*[2]	*Annual Average*[3]
CO	*332*	*14*	*4*
NO_2	*143*	*6*	*2*

Footnotes:

[1] From Draft EIR/EIS (App. E, pp. 96, Table 30)

[2] Calculated by dividing 1-hour average by 24

[3] Calculated by multiplying 24-hour average by 0.25 which is the ratio of the CARB approved annual conversion factor (0.10) and the EPA approved 24-hour conversion factor (0.40)

Table is referenced in Responses 0149-1

TABLE FEIR-AQ-13
SUMMARY OF LANDFILL GAS FLARE
DESTRUCTION EFFICIENCIES

Pollutant	Puente Hill Landfill Destruction Efficiencies Tested 7/86	BKK Landfill West Covina Destruction Efficiencies Tested 7/86	Puente Hill Landfill Destruction Efficiencies Tested 2/86	Puente Hill Landfill Destruction Efficiencies Tested 12/87	Spadra Landfill Destruction Efficiencies Tested 11/87	Milliken Landfill Destruction Efficiencies Tested 7/88	Average Destruction Efficiencies
Vinyl Chloride	96.0%	99.0%	99.0%	99.4%	99.3%	99.6%	98.7%
Benzene	99.0%	99.0%	99.0%	76.9%	98.5%	98.6%	95.2%
Toluene	99.0%	99.0%	99.0%	99.8%	99.5%	99.5%	99.3%
Xylenes				99.4%	97.9%	98.9%	98.7%
Methylene Chloride		95.0%					95.0%
Chloroform	97.0%	99.0%	96.0%	99.5%	98.1%	97.0%	97.8%
1,2-Dichloroethane		99.0%					99.0%
1,1,1-Trichloroethane	85.0%	99.0%	86.0%	99.8%	99.8%	57.5%	87.8%
Carbon Tetrachloride		99.0%		96.9%	99.2%	90.0%	96.3%
Trichloroethylene	99.0%	99.0%	99.0%	100.0%		99.7%	99.3%
Perchloroethylene	99.0%	99.0%	99.0%	100.0%	99.3%	99.6%	99.3%
						Average =	96.9%

Table referenced in Responses 0001-55, 0164-15 and 0164-16

TABLE FEIR-AQ-14

Revised Air Quality Modeling Results
Eagle Mountain Project
Original Project - With Mitigation
(Table 36 in DEIR/EIS Appendix E)

Pollutant Avg Time	Strictest Standard	Original Results ($\mu g/m^3$)	Revised Results ($\mu g/m^3$)	Change (%)
1-hr CO	23,000 (C)	186.7	137.8	-26%
8-hr CO	10,000 (C)	130.7	57.5	-56%
1-hr NO2	470 (C)	283.5	328.1	+16%
Ann NO2	100 (F)	25.7	4.6	-82%
Ann NO2 Joshua Tree	2.5 (F)	7.7	0.2	-97%
1-hr SO2	655 (C)	63.9	50.6	-21%
3-hr SO2	1300 (F)	57.5	26.7	-54%
3-hr SO2 Joshua Tree	25 (F)	17.6	3.0	-83%
24-hr SO2	131 (C)	25.2	6.6	-74%
24-hr SO2 Joshua Tree	5 (F)	7.8	0.4	-95%
Ann SO2	80 (F)	6.3	0.7	-89%
Ann SO2 Joshua Tree	2 (F)	1.9	0.1	-95%
24-hr PM10	50 (C)	72.9	17.2	-76%
24-hr PM10 Joshua Tree	10 (F)	17.7	1.7	-90%
Ann PM10	30 (C)	18.2	1.7	-91%
Ann PM10 Joshua Tree	5 (F)	4.4	0.1	-98%

Notes:

1. (C) refers to California air quality standards.
   (F) refers to Federal air quality standards.
2. Revised modeling reflects the following changes:
   - on-site weather data in place of screening data
   - improved treatment of long roads (shorter segments)
   - eight flares rather than a single flare
   - taller flare stack height (50 ft) for improved dispersion
   - more refined grid at Joshua Tree boundary

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Table referenced in Response 0139-53

Table FEIR-AQ-15

Comparison of Emissions From Eagle Mountain Railway Locomotives

(16,000 tons/day, 4.7 trips/day)

System	Trip Length (miles)	Gross Trailing Weight (tons)	Number of Locomotives	Fuel Use (gal/KTTM)	Fuel Use (gal/trip)	Fuel Use(1) (MMscf/trip)
Eagle Mountain						
Ferrum to Landfill	52	5439	3	4.27	1209	0.148
Landfill to Ferrum	52	1939	3	2.47	249	0.031
				Total	1458	0.179

	Pollutant				
	NOX	CO	PM10	VOC	SO2
Eagle Mountain (unmitigated)					
Emission Factor (lb/1000 gal)(2)	403	162	17	63	71
Emissions (lb/train)	588	236	25	92	104
Emissions (lb/day)	2762	1110	116	432	487
Emissions (tons/yr)	504	203	21	79	89
Eagle Mountain (mitigated)					
Emission Factor (lb/1000 gal)(3)	235	162	13	63	7
Emissions (lb/train)	342	236	19	92	10
Emissions (lb/day)	1608	1110	91	432	49
Emissions (tons/yr)	294	203	17	79	9
Eagle Mountain (with SCR)					
Emission Factor (lb/1000 gal)(4)	78	162	13	63	7
Emissions (lb/train)	114	236	19	92	10
Emissions (lb/day)	534	1110	91	432	49
Emissions (tons/yr)	98	203	17	79	9
Eagle Mountain (natural gas fuels)					
Emission Factor (lb/MMscf)(5)	635	430	1	140	1
Emissions (lb/train)	114	77	0	25	0
Emissions (lb/day)	534	362	1	118	1
Emissions (tons/yr)	98	66	0	21	0

Footnotes:

(1) Fuel use converted to MMscf based on 128,943 Btu/gal (value assumed on page 314, Table 22 of Draft EIR/EIS), and 1050 Btu/scf (value assumed in AP-42, Table 3.2-1, Emission Factors for Natural Gas Fired Engines).

(2) From "Feasibility and Cost Effectiveness of Controlling Emissions from Diesel Engines in Rail, Marine, Construction, Farm and Other Mobile Off-Highway Equipment", Radian Corporation (2/88), factors for GE locomotives.

(3) Emission factors account for retarded injection timing, turbocharging, aftercooling, increased injection pressure, improved air flow control, and use of low sulfur fuel.

(4) NOx emission factor equivalent to 2.0 gm/bhp-hr (limit proposed in Mitigation Measure AQ-9 of Final EIR/EIS). Remaining emission factors identical to Eagle Mountain Railway with mitigation.

(5) NOx emission factor equivalent to 2.0 gm/bhp-hr (limit proposed in Mitigation Measure AQ-9 of Final EIR/EIS). CO, VOC, and SOx emission factors from AP-42, Table 3.2-1 (Heavy Duty Natural Gas Fired Engines). Table 3.2-1 does not show an emission factor for PM10. Therefore, PM10 emission factor from AP-42, Table 1.4-1 (Natural Gas Combustion).

Table referenced in Responses 0003-14, 0106-3, 0049-4, 0107-1, 0117-6, 0161-3 and 0164-7

ATTACHMENT 3

TABLES SUMMARIZING EMISSION FACTORS AND PROCESS RATES USED FOR MITIGATED PROJECT

Table 3-1

Eagle Mountain Project
Transfer Station Emissions (Single Station)
Proposed Project With Mitigation

Vehicle Type	Number	Hr/Day	Fuel Gal/Hr	Location
Rubber-tired Loader	3	20	6	All stations
Container Handler	2	20	6	Truck-access stations
Train Car Spotter	1	5	7	Rail-access stations

	Emission Factors (lb/1000 gal)*				
Vehicle Type	NOx	CO	PM10	VOC	SO2
Rubber-tired Loader	234.79	97.83	15.65	15.65	7.10
Container Handler	234.79	97.83	15.65	15.65	7.10
Train Car Spotter	234.79	97.83	15.65	15.65	7.10

	Emissions (lb/day)				
Vehicle Type	NOx	CO	PM10	VOC	SO2
Rubber-tired Loader	84.52	35.22	5.63	5.63	2.56
Container Handler	56.35	23.48	3.76	3.76	1.70
Train Car Spotter	8.22	3.42	0.55	0.55	0.25
Total	149.09	62.12	9.94	9.94	4.51

Reference:

*"Feasibility and Cost Effectiveness of Controlling Emissions from Diesel Engines in Rail, Marine, Construction, Farm and Other Mobile Off-Highway Equipment", Radian Corporation (2/88), Table 7-1 converted to lbs/1000 gal. based on 0.4 lbs fuel/BHP and 7.1 lbs/gal. fuel.

Table 3-2

Eagle Mountain Project
Transfer Station Emissions (Total)
Proposed Project With Mitigation

Vehicle Type	Number	Hr/Day	Fuel Gal/Hr
Rubber-tired Loader	21	20	6
Container Handler	12	20	6
Train Car Spotter	2	5	7

		Emission Factors (lb/1000 gal)*			
Vehicle Type	NOx	CO	PM10	VOC	SO2
Rubber-tired Loader	234.79	97.83	15.65	15.65	7.10
Container Handler	234.79	97.83	15.65	15.65	7.10
Train Car Spotter	234.79	97.83	15.65	15.65	7.10

Vehicle Type	Number	Mileage Per Day
Transfer Truck/Trailer	24	450

		Emission Factors (gm/VMT)**			
Vehicle Type	NOx	CO	PM10	VOC	SO2
Transfer Truck/Trailer	15.65	7.40	2.28	2.44	3.21

		Emissions (lb/day)			
Vehicle Type	NOx	CO	PM10	VOC	SO2
Rubber-tired Loader	591.67	246.53	39.44	39.44	17.89
Transfer Truck/Trailer	372.72	176.11	54.20	58.17	76.45
Container Handler	338.10	140.87	22.54	22.54	10.22
Train Car Spotter	16.44	6.85	1.10	1.10	0.50
Total	1318.91	570.35	117.28	121.25	105.06

References:

*Sierra Research projections for emission factors for 1995 off-road equipment

**California Air Resources Board's EMFAC7D/BURDEN7B models for 1995 calendar year, Southeast Desert Air Basin

Revised 12/11/91

Table 3-3

Eagle Mountain Project
Train Emissions - Average Operating Day
Proposed Project With Mitigation

System	Fuel Use (gal/locomotive)	Number of Locomotives	Fuel Use (gal/trip)
Southern Pacific			
Basin to Ferrum	489	4	1956
Ferrum to Basin	570	2	1140
		Total	3096
Eagle Mountain			
Ferrum to Landfill	403	3	1209
Landfill to Ferrum	83	3	249
		Total	1458

			Pollutant		
	NOX	CO	PM10	VOC	SO2
Southern Pacific					
Emission Factor (lb/1000 gal)*	558	226	13	38.4	71
Emissions (lb/train)	1728	700	40	119	220
Emissions (lb/day)	8120	3289	189	559	1033
Emissions (tons/yr)	1482	600	35	102	189
Eagle Mountain					
Emission Factor (lb/1000 gal)^	235	162	13	63	7
Emissions (lb/train)	342	236	19	92	10
Emissions (lb/day)	1609	1110	91	432	49
Emissions (tons/yr)	294	203	17	79	9
Total System					
Emissions (lb/train)	2070	936	60	211	230
Emissions (lb/day)	9728	4399	280	990	1082
Emissions (tons/yr)	1775	803	51	181	197

References:

*"Feasibility and Cost Effectiveness of Controlling Emissions from Diesel Engines in Rail, Marine, Construction, Farm and Other Mobile Off-Highway Equipment", Radian Corporation (2/88), factors for mixed GE and EMD locomotives.

^"Feasibility and Cost Effectiveness of Controlling Emissions from Diesel Engines in Rail, Marine, Construction, Farm and Other Mobile Off-Highway Equipment", Radian Corporation (2/88), factors for GE locomotives.

Table 3-4

Eagle Mountain Project
Delivery Truck Emissions
Proposed Project With Mitigation

Truck Delivery Rate =	4000 tons/day
Truck Capacity =	20 tons/trip
Trip Length (round trip) =	150 miles
Total Haul Miles =	30000 miles/day

On-Highway Trucks	NOX	CO	PM10	VOC	SO2
Emission Factors, gm/VMT*	15.65	7.40	2.28	2.44	3.21
Total Emissions, lb/day	1035.32	489.18	150.55	161.59	212.36
Total Emissions, ton/yr	188.95	89.28	27.48	29.49	38.76

Reference:

*California Air Resources Board's EMFAC7D/BURDEN7B models for 1995 calendar year, Southeast Desert Air Basin

Table 3-5

Eagle Mountain Project
Onsite Mobile Equipment Exhaust Emissions
Proposed Project With Mitigation

			Fuel	Emission Factors (lb/1000 gal)*					Emissions (lb/day)				
	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
CONTAINER HANDLING YARD													
Overhead Crane	4	11	(Electric)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Container Handler	2	10	6	234.79	97.83	15.65	15.65	7.10	28.17	11.74	1.88	1.88	0.85
	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
WASTE HAULING													
Container Hauler	32	10	7	195.66	97.83	9.78	11.74	7.10	438.27	219.14	21.91	26.30	15.90
	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
LANDFILL FACE													
Crawler Tractor	10	10	14	234.79	97.83	15.65	15.65	7.10	328.70	136.96	21.91	21.91	9.94
Refuse Compactor	12	10	16	234.79	97.83	15.65	15.65	7.10	450.79	187.83	30.05	30.05	13.63
	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
COVER EXCAVATION													
Rubber-Tired Loader	2	10	11	234.79	97.83	15.65	15.65	7.10	51.65	21.52	3.44	3.44	1.56
	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
COVER HAULING													
Off-Highway Truck	1	12.5	7.0	195.66	97.83	9.78	11.74	7.10	17.12	8.56	0.86	1.03	0.62
APPLICATION OF	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
DAILY COVER													
Crawler Tractor	3	10	14	234.79	97.83	15.65	15.65	7.10	98.61	41.09	6.57	6.57	2.98

Table 3-5 (cont.)

Eagle Mountain Project
Onsite Mobile Equipment Exhaust Emissions
Proposed Project With Mitigation

				Emission Factors					Emissions				
			Fuel	(lb/1000 gal)*					(lb/day)				
DUST CONTROL AND ROAD MAINTENANCE	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
12,000-Gal Tanker	2	11	20	195.66	97.83	9.78	11.74	7.10	86.09	43.04	4.30	5.17	3.12
Motor Grader	2	10	7	234.79	97.83	15.65	15.65	7.10	32.87	13.70	2.19	2.19	0.99
	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
LINER CONSTRUCTION													
Frontend Loader	1	8	5	234.79	97.83	15.65	15.65	7.10	9.39	3.91	0.63	0.63	0.28
Pugmill	1	8	(Electric)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	1	8	6	195.66	97.83	9.78	11.74	7.10	9.39	4.70	0.47	0.56	0.34
Crawler Tractor	1	8	6	234.79	97.83	15.65	15.65	7.10	11.27	4.70	0.75	0.75	0.34
Compactor	1	8	6	234.79	97.83	15.65	15.65	7.10	11.27	4.70	0.75	0.75	0.34
	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
BENCH CLEARING													
Crawler Tractor	1	8	6	234.79	97.83	15.65	15.65	7.10	20.54	8.56	1.37	1.37	0.62
	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
MISCELLANEOUS													
Backhoe	1	2	3	234.79	97.83	15.65	15.65	7.10	1.41	0.59	0.09	0.09	0.04
Utility Truck	1	2	5	195.66	97.83	9.78	11.74	7.10	1.96	0.98	0.10	0.12	0.07
Grader	1	2	5	234.79	97.83	15.65	15.65	7.10	2.35	0.98	0.16	0.16	0.07
GRAND TOTAL, lb/day									1599.9	712.7	97.4	103.0	51.7
tons/yr									292.0	130.1	17.8	18.8	9.4

Reference:

*"Feasibility and Cost Effectiveness of Controlling Emissions from Diesel Engines in Rail, Marine, Construction, Farm and Other Mobile Off-Highway Equipment", Radian Corporation (2/88), Table 7-1 converted to lbs/1000 gal. based on 0.4 lbs fuel/BHP and 7.1 lbs/gal. fuel.

Table 3-6

Eagle Mountain Project
Fugitive Dust Emissions
Proposed Project With Mitigation

Activity	Annual Process Rate	Process Rate Units	Emission Factor* (lb/unit)	Control Factor* (%)	TSP Emission Rate (lb/hr)	PM10 Factor* (%)	PM10 Emission Rate (lb/hr)	PM10 Emission Rate (lb/day)	PM10 Emission Rate (ton/yr)
Waste Hauling	1433379	VMT	9.50	95%	186.45	0.22	41.02	410.20	74.86
Cover Excavation	3650	hr	5.7	90%	0.57	0.13	0.08	0.75	0.14
Cover Processing	2190000	ton	0.27	89%	18.16	0.52	9.52	95.18	17.37
Truck Loading	2190000	ton	0.01	0%	6.36	0.50	3.18	31.80	5.80
Cover Hauling	53945	VMT	16.80	95%	9.93	0.22	2.18	27.31	4.98
Cover Dumping	2190000	ton	0.01	0%	6.36	0.50	3.18	31.80	5.80
Cover Spreading	3650	hr	5.7	0%	5.7	0.13	0.75	7.50	1.37
Road Watering	56210	mi	9.38	90%	13.13	0.22	2.89	31.78	5.80
Road Grading	14600	mi	0.23	50%	0.45	0.54	0.24	2.44	0.45
Liner Excavation	2920	hr	34.23	90%	3.42	0.28	0.96	7.70	1.41
Liner Hauling	43800	VMT	9.38	90%	14.07	0.22	3.10	24.76	4.52
Bench Clearing	2920	hr	13.10	30%	9.17	0.16	1.48	11.87	2.17
Backhoe	730	hr	0.04	30%	0.03	0.76	0.02	0.04	0.01
Utility Truck	730	mi	3.79	90%	0.38	0.22	0.08	0.17	0.03
Grader	730	hr	0.23	50%	0.11	0.54	0.06	0.12	0.02
Windblown Fugitive Dust								0.18	0.03
			TOTALS		274.3		68.7	683.6	124.8

*See following Footnotes.

Table 3-6 (cont.)

Footnotes

1. Waste Hauling, Cover Hauling, Road Watering, Liner Hauling, and Utility Truck Use: The emission factors are computed from AP-42 "Compilation of Air Pollutant Emission Factors", 11.2.6-1 (Industrial Paved Roads), using unpaved entry areas (multiplier = 7), 4 traffic lanes, 6% silt fraction, 5900 lb/mile surface dirt loading, and vehicle weights of 43 (waste hauling, road watering, and liner hauling), 94 (cover hauling), and 8 (utility truck use) gross tons loaded (for 50% of travel) and 18 (waste hauling, road watering, and liner hauling), 44 (cover hauling), and 8 (utility truck use) gross tons empty (for 50% of travel). The control efficiency is computed from EPA-450/3-88-008 "Control of Open Fugitive Dust Sources" with 0.80 mm/hr evaporation rate, 80 vehicle/hr traffic flow, 60 minute application interval, 3.00 gal/yd2 application rate for road watering, or sufficient watering to raise surface moisture content from 1% to 5%, or (from EPA-600/2-87-102 "Evaluation of the Effectiveness of Chemical Dust Suppressants on Unpaved Roads) monthly application of 0.30 gallons/yd2 of a 5:1 solution of water and Soil Cement. The PM10 conversion factor is from AP-42, 11.2.6-3 (Industrial Paved Roads).

2. Cover Excavation, Cover Spreading, Liner Excavation, and Bench Clearing: The emission factors are computed from AP-42, 8.24-5 (Western Surface Coal Mines, bulldozing overburden) with 1.0% (cover excavation and cover spreading), 20% (liner excavation), and 2% (bench clearing) silt contents (estimated from discussions with facility personnel) and 1% (cover excavation, cover spreading, and bench clearing) and 4% (liner excavation) moisture contents (estimated). The control factors are estimated from field data collected during the excavation of tailings at a former asbestos mine near Copperopolis, California. The PM10 conversion factor is computed from AP-42, 8.24-5 (Western Surface Coal Mines, bulldozing overburden).

3. Cover Processing: The emission factor is computed as the sum of emission factors for the stationary equipment included in the cover processing operation: 0.12 pounds/ton - dump hopper (from AP-42, 8.24-3, Metallic Minerals, dry transfer), 0.01 pounds/ton - belt transfer at base of dump hopper (from AP-42, 11.2.3-3, Aggregate Handling and Storage Piles, with 7.5 mph average wind and 1% moisture content), 0.02 pounds/ton - cone crusher (from AP-42, 8.19.2-4, Crushed Stone primary crushing at 1.5% moisture content), and 0.12 pounds/ton - pile stacker (from AP-42, 8.24-3, Metallic Minerals dry transfer). The average wind speed is taken from ARB's "California Surface Wind Climatology" for Desert Center and the moisture contents are estimated. The control efficiency is computed as a composite weighted by emissions from each of the stationary sources: 80% - dump hopper (estimated from vendor literature and inspection of hoppers equipped with hollow cone spray nozzles), 99% - belt transfer and cone crusher (estimated from vendor literature and MD-20 "Control of Particulate Emissions" for pulse-jet baghouses), 95% - pile stacker (estimated from vendor literature and inspection of stackers with drop height controllers,

Table 3-6 (cont.)

Footnotes

midbelt deluge sprays, and head pulley solid cone nozzles). The PM10 conversion factor is an emission-weighted average covering each item of stationary equipment: 50% - dump hopper (from ARB "Information for Applying the State Ambient Air Quality Standards for PM10 to the Permitting of New and Modified Stationary Sources"), 100% - belt transfer and cone crusher (all emissions from baghouse assumed to be PM10), 60% - pile stacker (from AP-42, 8.23-4, Metallic Minerals, transfer of material with 4.0% moisture content).

4. Truck Loading, Cover Dumping: The emission factors are computed from AP-42, 11.2.3-3 (Aggregate Handling and Storage Piles), with 7.5 mph average wind speed (ARB, Desert Center) and 1% moisture content (estimated). The PM10 conversion factor is from the ARB PM10 permitting manual.

5. Road Grading, Backhoe Use, and Miscellaneous Grading: The emission factors are computed from AP-42, 8.24-5 (Western Surface Coal Mines, grading) with vehicle speeds of 2 mph (estimated for road and miscellaneous grading) and 1 mph (estimated for backhoe use). The control factors are estimated from EPA-450/3-88-008 with 0.80 water evaporation rate, 4 vehicle passes per hour, 8 hour water application interval, and 0.15 gallon/yd2 water application rate for road and miscellaneous grading, and are estimated from inspection of pipeline construction projects for backhoe use. The PM10 conversion factor is from AP-42, 8.24-5 (Western Surface Coal Mines, grading).

Table 3-7

Eagle Mountain Project
Total Project Emissions
Proposed Project With Mitigation

			(lb/day)					(ton/yr)		
Activity	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
Offsite Sources:										
Transfer Stations	1319	570	117	121	105	241	104	21	22	19
Trains	9728	4399	280	990	1082	1775	803	51	181	197
On-Highway Trucks	1035	489	151	162	212	189	89	27	29	39
Subtotal, Offsite	12082	5458	548	1273	1399	2205	996	99	232	255
Onsite Sources:										
Onsite Vehicle Exhaust	1600	713	97	103	52	292	130	18	19	9
Onsite Fugitive Dust			684					125		
Landfill Gas Flares	1182	816	676	845	310	216	149	123	154	57
Subtotal, Onsite	2782	1529	1457	948	362	508	279	266	173	66
PROJECT GRAND TOTAL	14864	6987	2005	2221	1761	2713	1275	365	405	321

Revised 12/11/91

ATTACHMENT 4

LEVEL -1 AND -2 VISIBILITY SCREENING ANALYSIS

```
-----------------------------------------------------------------------------------------------------------------------------
Level-1 Visibility Screening Analysis
-----------------------------------------------------------------------------------------------------------------------------

Project:                    Eagle Mountain            LFG Flow Rate =      46000 cfm      Control Efficiency - TSP:       0.0%
Location:                   Desert Center, CA                      =        66.2 MMcfd                        - NOX:      30.0%
Distance to nearest Class I area =      3.74  km = x                                                          - SO2:       0.0%
Class I area name:          Joshua Trees National Monument
PM10 emissions =      28.17  lb/hr =       676  lb/day =  0.3066  mton/day = Qpm  =      123 ton/yr
NOX emissions =       49.26  lb/hr =    1182.3  lb/day =  0.5363  mton/day = Qnox =      216 ton/yr
SO2 emissions =       12.92  lb/hr =       310  lb/day =  0.1406  mton/day = Qso2 =       57 ton/yr
Background Visual Range =        110 km

        sigz    = vertical dispersion coefficient for F statility = 1.505(x^0.3663) m for x > 5000 m
                                                                  = 0.193(x^0.6072) m for 500 < x < 5000 m
                 (Source: Dispersion Equation Solutions by Calculator: A Guide for Air Pollution Engineers and Scientists,
                         Texas Air Control Board, November 1975)
        p       = plume dispersion parameter = (2.0x10^8)/[(sigz)(x)]
        Tpm     = optical thickness (pm10) = [10x10^(-7)](p)(Qpm)
        Tnox    = optical thickness (nox) = [1.7x10^(-7)](p)(Qnox)
        Rvo     = background visual range =      110 km
        Taerosol= optical thickness (aerosol) = [1.06x10^(-5)](Rvo)[Qpm+(1.31)(Qso2)]

        C1      = plume contrast against sky
                = -(Tnox)/(Tpm+Tnox)[1-exp(-Tpm-Tnox)][exp((-0.78)(x)/(Rvo))]
        C2      = plume contrast against terrain
                = [1-(1/(C1+1))exp(-Tpm-Tnox))][exp((-1.56)(x)/(Rvo))]
        C3      = change in sky/terrain contrast caused by aerosol
                = 0.368[1-exp(-Taerosol)]

        sigz    =    28.5  meters
        p       = 1875657
        Ttsp    =  0.5751
        Tnox    =  0.1710
        Taerosol=  0.0006

        |C1|    =          0.1174         (Level of Significance = 0.10)
        |C2|    =          0.4389         (Level of Significance = 0.10)
        |C3|    =          0.0002         (Level of Significance = 0.10)

        A Significance Level in excess of 0.10 recommends that additional visibility
                 analysis be undertaken.  (Source:  Workbook for Estimating Visibility
                 Impairment, EPA-450/4-80-031, November 1980)
```

REVISED VISIBILITY ANALYSIS FOR THE EAGLE MOUNTAIN LANDFILL PROJECT

April 1992

Prepared by:

Sierra Research, Inc.
1521 "I" Street
Sacramento, CA 95814
(916) 444-6666

REVISED VISIBILITY ANALYSIS
FOR THE EAGLE MOUNTAIN LANDFILL PROJECT

Summary

A Level-2 plume visual impact analysis, using the EPA-approved VISCREEN model (version 88341), was conducted for the plumes associated with the eight Eagle Mountain landfill gas flares. The analysis was conducted in order to estimate worst-day visual impacts at Joshua Tree National Monument (a "Class I" area). A Level-1 visibility impact analysis, conducted for the Draft EIS/EIR, indicated a need for a more sophisticated analysis when on-site meteorological data became available. The Level-1 analysis assumed a single large flare located near the Phase II container handling yard. Changes to the landfill gas flares were made after new information regarding the number and locations of the flares became available. For the Level-2 analysis, emissions from eight separate flares were analyzed rather than emissions from a single large flare. The emissions rate for each of the eight flares is equivalent to 1/8 of the emission rate used for the single large flare in the Level-1 analysis. Two of the eight flares are still located near the Phase II container handling yard. A second pair of flares is located north of the fine tailing area. A third pair of flares is located near the south haul road approximately 2,500 meters to the east of the southwest corner of the project. The remaining pair of flares is located near the southwest corner of the project boundary.

Inputs to the Level-2 analysis, consisting of median background visual range, worst-case meteorological data, and particle type and size, were reviewed carefully. The median background visual range measured in the general area of Eagle Mountain was used for the modeling. In accordance with the modeling guidance[1], on-site meteorological data were analyzed to estimate the worst-case dispersion conditions that occur at least one-percent of the time. These measured data were used in place of the estimated worst possible dispersion condition as used in Level-1 screening analyses. A mass median particle size of 0.1 microns derived from landfill flare test data was used for the Level-2 analysis rather than the Level-1 default value of 2.0 microns.

It is important to note that this analysis is limited to the question of visibility impacts caused by emissions from the landfill flares alone, but not to the impacts caused by fugitive dust emissions nor to the greater question of regional haze impacts. A model for point-source plumes, such as VISCREEN or Level-3 models such as PLUVUE-2, would generally be considered inappropriate for area source emissions such as those from the landfill face, tailing piles, or roads.

---

[1] Workbook for Plume Visual Impact Screening and Analysis, Latimer, D.A., and R.G. Ireson, EPA-450/4-88-015, September 1988.

Plume Perceptibility

The ability to distinguish a plume against a background at various wavelengths (or perceptibility) is a function of brightness and color contrast. The color difference parameter, Delta-E, was developed to quantitatively express perceptibility on an evenly-divided scale. Thus, given two plumes, a value of Delta-E for plume A which is twice that of plume B would indicate plume A would be twice as likely to be noticed against a particular background. Given a different background or viewing angle with respect to the sun, the values of Delta-E for the same two plumes could be radically different.

The color and brightness scales incorporated in VISCREEN (as well as the more refined model, PLUVUE-2) are based on a set of equations known as the CIELAB equations. The CIELAB equations are based on the Cube-root equations[2], which were combined with the widely-used Adams-Nickerson color-difference formula in 1976 by the CIE (Commission Internationale l'Eclairage). These equations were developed to promote uniform analytical practice among industries as diverse as textiles, plastics, and color television[3]. Thus, the perceptibility equations used in VISCREEN are based on time-tested industrial standards. The equation for Delta-E,

$$\Delta E = (\Delta L^2 + \Delta a^2 + \Delta b^2)^{0.5}$$

includes three independent variables: L, a , and b. These variables refer to perceived brightness, color hue, and saturation, respectively.

Perceptibility thresholds have been established to help indicate when a diffuse object, such as a plume, will become noticeable against its viewing background[4]. Perceptibility thresholds vary with the apparent size of the object as viewed by the observer, the alertness of the observer to the presence of the object to be viewed, and the viewing environment, whether in a laboratory or at an outdoors site. The VISCREEN model uses contrast thresholds of 0.05 (change in light intensity at the green wavelength) and Delta-E thresholds of 2.0 (except for plumes with subtended angles less than 0.1° or greater than 5°, for which cases higher thresholds[5] are set). These values are meant to be estimates of the perceptibility thresholds for a casual observer in the field.

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[2] Glasser, L.G., A.H. McKinney, C.D. Reilley, and P.D. Schnelle, J. Opt. Soc. AM., 48, 736 (1958), and later modified by Reilley at the 1967 meeting of the CIE colorimetry committee.

[3] Robertson, A.R., Color Res. and Appl., **15**, 167, 1990.

[4] Appendix A, Workbook for Plume Visual Impact Screening and Analysis, Latimer, D.A., and R.G. Ireson, EPA-450/4-88-015, September 1988.

VISCREEN Model Inputs

The shortest distance between the landfill flares and Joshua Tree National Monument is 4.06 kilometers, corresponding to the distance from the pair of flares located near the Phase II container handling yard directly north to the southern boundary of the Monument. This distance was used for the minimum distance between the emissions source and the Class I area, and also for the distance between the emissions source and the observer. The distance chosen between the emissions source and farthest boundary of the Class I area was 21.0 kilometers, corresponding to the distance from the flares located near the container handling yard to the northern boundary of Joshua Tree National Monument. The angle between the plume and the possible locations of the observer was set at the default value of 11.25°. The default background ozone concentration of 0.04 ppm was used.

A median background visual range of 72.4 kilometers (45 miles) for the general area of Eagle Mountain, rather than the Level-1 screening-level background visual range of 110 kilometers, was used for the Level-2 modeling. This level of background visibility corresponds to median 1 p.m. visibilities in the general area of Eagle Mountain[6].

On-site meteorological data were analyzed to estimate the one-percent cumulative frequency of worst-case dispersion conditions. These measured data were used in the Level-2 analysis rather than simply using the worst possible dispersion condition, as was done in Level-1 screening analyses. The three worst-case dispersion conditions for winds from the south, towards Joshua Tree National Monument, at the Eagle Mountain project are indicated in a joint frequency table (Table 1). Dispersion conditions are ranked in order of severity by evaluating the product $\sigma_z u$, where σ_z is the Pasquill-Gifford vertical diffusion coefficient for the given stability class and minimum downwind distance from the source to the Class I area, and u is the maximum wind speed for the given wind speed category in the joint frequency table. The frequency of occurrence of the winds is based on time-of-day (early morning, late morning, afternoon, and after sunset).

Even though the frequency of occurrence of worst-case dispersion conditions for winds from the south in the early-morning hours is rather high (3.0% for F stability, 1.0 meter-per-second wind speed), winds from the south at that time of day are somewhat rare (nighttime downslope winds usually carrying the plume to the east), so the cumulative frequency of worst-case winds does not reach one percent (only 0.6%).

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[5] According to Howell, E.R., and R.F. Hess, Vision Res., 18, 369, 1978.

[6] Figures 3.5 et al., Visibility in California, Trijonis, J., Technology Service Corp., TSC-PD-B612-3, 227 pp. July 1980.

However, the one percent cumulative frequency threshold is reached for E stability, 1.0 meter-per-second wind speed (the next-to-the-worst dispersion condition). Hence, it was used for the Level-2 screening visibility analysis.

Table 1
Worst-Case Meteorological Conditions for
Plume Visual Impact Calculation.

Stability and Windspeed (m/s)	σ_z u (m^2/s)	Frequency of Occurrence of Given Dispersion Condition Associated with Worst-Case Southerly Winds for Given Time of Day (percent)				Frequency and Cumulative Frequency (percent)	
		0-6	6-12	12-18	18-24	f	cf
F,1	90	3.0	0.0	0.0	2.0	0.6	0.6
E,1	175	12.0	0.6	0.5	2.0	1.5	2.1
F,2	180	24.2	0.0	0.0	10.1	3.5	5.6

For the Level-2 analysis, the mass median diameter of particles emitted by the landfill flares was derived from information contained in a variety of sources. As no direct measurement of particle size from such sources was found in a review of the literature, the mass median size was calculated using data from relevant literature.

The basic information on particulate characterization is contained in the results of a landfill flare source test conducted by the South Coast Air Quality Management District at the BKK landfill in West Covina. A copy of the particulate summary data sheet are shown in Attachment 4-1, Figure 1-1. This test indicates that 91.67% of solid and liquid particulate were captured in the water-filled impinger train of the test equipment, downstream of the particulate filter. The filter is required to have a maximum pore size of 0.3 microns[7], which indicates that 91.67% of the particulate emitted was smaller than 0.3 microns [μm].

Although the slope of the particle size distribution from landfill flares has not been reported, the slope of particle sizes from other similar combustion sources has been measured and published. Unfortunately, very little size data has been published for gaseous fuel sources. A generic size distribution of particles from combustion sources, included gas-fired units, is contained in EPA's emission factor compendium[8]. This size distribution, which appears in Attachment 4-1, Figure 1-2, shows the log normal slope of the distribution to be 4.83.

---

[7] Source Test Manual, South Coast Air Quality Management District, March 1989

The mass median particle size was backcalculated from the source test data point and the generic size distribution slope using a log-probability model. The output of this model is displayed in Attachment 4-1, Figure 1-3. The model indicates that a mass median particle size of 0.0453 μm with a log normal slope of 4.83 will produce a size distribution containing 91.67% of mass in particles smaller than 0.3 μm.

As the VISCREEN Level-2 model will not accommodate particle sizes smaller than 0.1 μm, this was the value used as a default for the calculated diameter of 0.0453 μm.

The mass median diameter of fine, ambient background particles was reduced to 0.2 μm from the default value of 0.3 μm, in order to correspond better to diameters typical of arid regions as recommended in the modeling guidance document.

VISCREEN Model Results Summary

Two viewing scenarios are included in the VISCREEN model:

1. Forward scattering (angle of the sun from the line of sight; $\theta = 10°$), which assumes the observer is looking nearly into the sun; and

2. Backward scattering ($\theta = 140°$), which assumes the observer is looking away from the sun.

The nonuniform nature of light scattering by particles indicates that these two scenarios are generally the worst cases for evaluating visibility impacts.

In all, four potential visibility scenarios are predicted by the VISCREEN model:

1. Forward scattering with the sky as the background;

2. Forward scattering with the terrain as the background;

3. Backward scattering with the sky as the background; and

4. Backward scattering with the terrain as the background.

A summary of results from the Level-2 visibility modeling is given in Table 2 with the model output shown in Attachment 4-2. The results show that plume impacts are below the Delta-E and contrast thresholds for both forward and backward scattering against sky backgrounds. Furthermore, plume impacts are below the Delta-E and contrast thresholds for both backward and backward scattering against a terrain background for lines of sight within the Class I area. The Eagle Mountain project site is not within an integral vista of the Joshua Tree National Monument, so modeling results for lines of sight outside the Class I area are not considered relevant.

---

[8] Compilation of Air Pollutant Emission Factors, Fourth Edition, AP-42, U.S. EPA, September 1985

Table 2
Maximum Visual Impacts
within Joshua Tree National Monument

Background	Type of Light Scattering	Delta E		Contrast	
		Threshold Level	Plume Impact	Threshold Level	Plume Impact
Sky	Forward	2.0	1.8	0.05	-0.012
Sky	Backward	2.0	1.0	0.05	-0.003
Terrain	Forward	2.3	2.1	0.09	0.005
Terrain	Backward	2.0	0.9	0.09	0.008

ATTACHMENT 4-1

PARTICULATE SIZE DISTRIBUTION

Figure 1-1

Page 18

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

t No. 86-122

Date March 4, 1986

pling Location BKK Corp. Flare #6

Sample Train HCl - Cl⁻

(Lab Results)					
pinger Gain, mL		43	} 57 mL H_2O		
ica Gel Gain, g		14			
as HCl, mg	Probe	27	Impinger	94	= 121
Cl, mg	Probe	59	Impinger	70	= 129

Calculated By WAN

Checked By S. M.

SOURCE TEST CALCULATIONS

MARY

Average Traverse Velocity (Pre-Test) .... 16.36 fps
Average Reference Point Velocity (Pre-Test) .... – fps
Average Traverse Velocity (During Test) .... Assume ... 16.36 fps

Average Stack Temperature 1400 °F
Stack Cross Sectional Area 36.67 ft²
Barometric Pressure........ 29.06 "HgA
Gas Meter Pressure........ 29.06 "HgA
Static Pressure........... 29.06 "HgA
Pitot Correction Factor... 0.84

J. Sampling Time.............. 60 min
K. Nozzle Cross-Sectional Area 0.00136 ft²
L. Net Sample Collection...... 121 mg
M. Net Solid Collection....... – mg
N. Water Vapor Condensed...... 57 ml
O. Gas Volume Metered......... 34.868 dcf

Correct Gas Volume Metered (O. x G/29.92).............................. 33.87 dscf

ENT MOISTURE - GAS DENSITY

Percent Water Vapor in Gas Sample $\left[\frac{4.64 \times N}{(0.0464 \times N) + P}\right]$ .... 7.24 %

Average Molecular Weight:

(Component)	(Volume % / 100) x	(1 - Q/100) x	(Molec. Wt.) =	(Wt./Mole)
Water		1.00	18.0	
Carbon Dioxide	Dry Basis		44.0	
Carbon Monoxide	Dry Basis		28.0	
Oxygen	Dry Basis		32.0	
Nitrogen & Inerts	Dry Basis		28.2	
			(Sum)	

RATE

Gas Density Correction Factor $\sqrt{28.95/R}$ 1.00
Flue Correction Factor (A/B).... .... 1.000
Velocity Pressure Correction Factor $\sqrt{29.92/H}$ 1.015
Corrected Velocity (C x I x S x T x U) .... 13.94 fps
Flow Rate (V x E x 60)........................ 30680 cfm
Flow Rate $\left(W \times \frac{H}{29.92} \times \frac{520}{460 + D}\right)$ .... 8331 scfm
Flow Rate $\left[X \times (1 - Q/100)\right]$........................ 7728 dscfm

E CONCENTRATION - EMISSION RATE

Sample Concentration (0.01543 x L/P)........................ 0.0551 gr/dscf
Sample Concentration (54,143 x Z/_____ Molec. Wt.)........................ 81.9 ppm (dry)
Sample Emission Rate (0.00857 x Y x Z)........................ 3.65 lb/hr
Solid Emission Rate $\left(\frac{1.322 \times 10^{-4} \times M \times Y}{P}\right)$ .... lb/hr

sokinetic Sampling R $\left(E \times P \times T \times 100\right.$

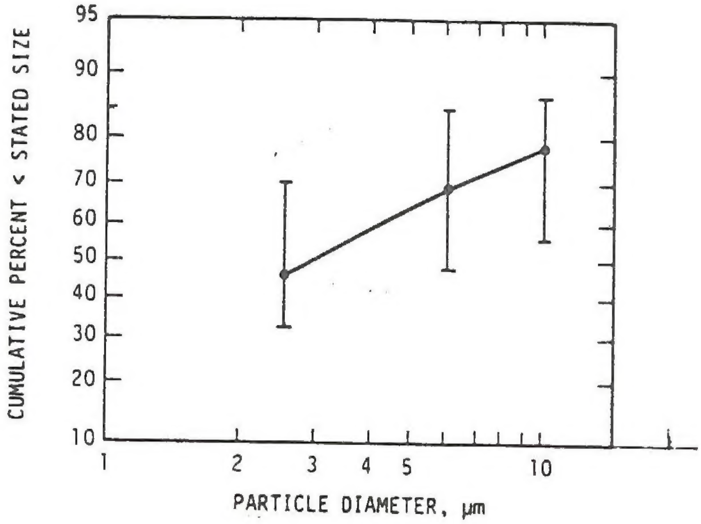
Figure 1-2

TABLE C.2-2 (continued).

Category: 2
Process: Combustion
Material: Mixed Fuels

Category 2 covers boilers firing a mixture of fuels, regardless of the fuel combination. The fuels include gas, coal, coke, and petroleum. Particulate emissions are generated by firing these miscellaneous fuels.

REFERENCE: 1



Particle size, µm	Cumulative % less than or equal to stated size (uncontrolled)	Minimum Value	Maximum Value	Standard Deviation
1.0[a]	23			
2.0[a]	40			
2.5	45	32	70	17
3.0[a]	50			
4.0[a]	58			
5.0[a]	64			
6.0	70	49	84	14
10.0	79	56	87	12

[a] Value calculated from data reported at 2.5, 6.0, and 10.0 µm. No statistical parameters are given for the calculated value.

Figure 1-3

PARTICLE SIZE DISTRIBUTION ANALYSIS

04/29/92

Project: Eagle Mountain
Material: Landfill Gas Flare Exhaust

Particle Mean Diameter (MD) = 0.0453 microns
Standard Deviation (SD) = 4.83 nondimensional
(= D@50.0%/D@15.9%)

Probability Constants:
A1 = 0.319382 A2 = -0.35656 A3 = 1.781478
A4 = -1.82126 A5 = 1.330274 P = 0.231642

Z = abs[(lnX - lnMD)/lnSD]
F(Z) = (1/((2pi)^0.5))e^(-Z^2/2)
U = 1/(1 + PZ)
A = A1*U + A2*U^2 + A3*U^3 + A4*U^4 + A5*U^5
F'(Z) = F(Z)*A (for X <MD); = 1 - F(Z)*A (for X > MD);
f(Z) = F'(Z2) - F'(Z1)

Size Range (microns) From	To	Z	F(Z)	U	A	F'(Z)	f(Z)
0	0.05	0.062380	0.398167	0.985756	1.193289	0.524872	0.524872
0.05	0.1	0.502657	0.351597	0.895707	0.874871	0.692398	0.167526
0.1	0.15	0.760202	0.298827	0.850272	0.748147	0.776434	0.084036
0.15	0.2	0.942933	0.255764	0.820733	0.675846	0.827143	0.050709
0.2	0.25	1.084670	0.221531	0.799198	0.627603	0.860966	0.033824
0.25	0.3	1.200478	0.194075	0.782423	0.592435	0.885023	0.024057
0.3	0.4	1.383209	0.153267	0.757341	0.543497	0.916700	0.031676
0.4	0.5	1.524946	0.124722	0.738966	0.510224	0.936364	0.019664
0.5	0.6	1.640754	0.103833	0.724602	0.485629	0.949576	0.013212
0.6	0.8	1.823485	0.075661	0.703039	0.450888	0.965885	0.016309
0.8	1	1.965222	0.057845	0.687178	0.426902	0.975306	0.009421
1	2	2.405498	0.022101	0.642172	0.365383	0.991925	0.016619
2	5	2.987512	0.004601	0.591005	0.305685	0.998594	0.006669
5	10	3.427788	0.001121	0.557408	0.271536	0.999696	0.001102
10	20	3.868064	0.000225	0.527425	0.243995	0.999945	0.000249
20	50	4.450077	0.000020	0.492411	0.214946	0.999996	0.000051
50	100	4.890353	0.000003	0.468865	0.197110	0.999999	0.000004
100		9.27805	0.000000	0.317542	0.108282	1.000000	0.000001

ATTACHMENT 4-2

VISCREEN MODEL INPUTS AND OUTPUTS

```
              Visual Effects Screening Analysis for
                Source: LANDFILL FLARES 7 & 8
                Class I Area: JOSHUA TREE NATIONAL MON


              *** User-selected Screening Scenario Results ***
 Input Emissions for

    Particulates     7.03  LB /HR
    NOx (as NO2)    12.31  LB /HR
    Primary NO2      0.00  LB /HR
    Soot             0.00  LB /HR
    Primary SO4      0.00  LB /HR


              PARTICLE CHARACTERISTICS
              Density       Diameter
              =======       ========

 Primary Part.      1.5          1
 Soot               2.0          1
 Sulfate            1.5          4

              Transport Scenario Specifications:

     Background Ozone:                   0.04 ppm
     Background Visual Range:           72.40 km
     Source-Observer Distance:           4.06 km
     Min. Source-Class I Distance:       4.06 km
     Max. Source-Class I Distance:      21.00 km
     Plume-Source-Observer Angle:       11.25 degrees
     Stability:  5
     Wind Speed:   1.00 m/s

                            R E S U L T S

 Asterisks (*) indicate plume impacts that exceed screening criteria

          Maximum Visual Impacts INSIDE  Class I Area
           Screening Criteria ARE NOT Exceeded
                                          Delta E        Contrast
                                        ===========    ============
 Backgrnd Theta Azi Distance Alpha Crit  Plume    Crit  Plume
 ======== ===== === ======== ===== ====  =====    ====  =====
  SKY       10. 155.    7.2    14.  2.00  1.179    0.05 -0.012
  SKY      140. 155.    7.2    14.  2.00  0.996    0.05 -0.003
  TERRAIN   10.  84.    4.1    84.  2.30  2.136    0.09  0.005
  TERRAIN  140.  84.    4.1    84.  2.00  0.878    0.09  0.008
```

ATTACHMENT 5

REVISED EMISSION SUMMARY TABLES

Table 20

Eagle Mountain Project
Transfer Station Emissions (Total)
Proposed Project Without Mitigation

Vehicle Type	Number	Hr/Day	Fuel Gal/Hr
Rubber-tired Loader	21	20	6
Container Handler	12	20	6
Train Car Spotter	2	5	7

Vehicle Type	Emission Factors (lb/1000 gal)* NOx	CO	PM10	VOC	SO2
Rubber-tired Loader	325.18	81.00	31.70	23.48	33.54
Container Handler	325.18	81.00	31.70	23.48	33.54
Train Car Spotter	466.05	287.22	49.70	68.87	33.30

Vehicle Type	Number	Mileage Per Day
Transfer Truck/Trailer	24	450

Vehicle Type	Emission Factors (gm/VMT)** NOx	CO	PM10	VOC	SO2
Transfer Truck/Trailer	15.65	7.40	2.28	2.44	3.21

Vehicle Type	Emissions (lb/day) NOx	CO	PM10	VOC	SO2
Rubber-tired Loader	819.46	204.13	79.88	59.17	84.51
Transfer Truck/Trailer	372.72	176.11	54.20	58.17	76.45
Container Handler	468.26	116.64	45.64	33.81	48.29
Train Car Spotter	32.62	20.11	3.48	4.82	2.33
Total	1693.06	516.98	183.20	155.97	211.58

References:

*"Feasibility and Cost Effectiveness of Controlling Emissions from Diesel Engines in Rail, Marine, Construction, Farm and Other Mobile Off-Highway Equipment", Radian Corporation (2/88), Table 7-1 converted to lbs/1000 gal. based on 0.4 lbs fuel/BHP and 7.1 lbs/gal. fuel.

**California Air Resources Board's EMFAC7D/BURDEN7B models for 1995 calendar year, Southeast Desert Air Basin

Table 28

Eagle Mountain Project
Total Project Emissions*
Proposed Project Without Mitigation

			(lb/day)					(ton/yr)		
Activity	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
Offsite Sources:										
Transfer Stations	1693	517	183	156	212	309	94	33	28	39
Trains	10881	4399	306	990	1520	1986	803	56	181	277
On-Highway Trucks	1035	489	151	162	212	189	89	27	29	39
Subtotal, Offsite	13609	5405	640	1308	1944	2484	986	116	238	355
Onsite Sources:										
Onsite Vehicle Exhaust	2821	946	210	167	291	515	173	38	30	53
Onsite Fugitive Dust			766					140		
Landfill Gas Flares	1182	816	676	845	310	216	149	123	154	57
Subtotal, Onsite	4003	1762	1652	1012	601	731	322	301	184	110
PROJECT GRAND TOTAL	17612	7167	2292	2320	2545	3215	1308	417	422	465

* Reflects measures required to comply with current regulations.

Table 29

Maximum Impact of Proposed Eagle Mountain Project on Ambient Air Quality
(without mitigation)
(all concentrations in micrograms per cubic meter)

Pollutant/ Averaging Time	California Standards	National Standards	Maximum Offsite Concentration	Maximum Background	Maximum Cumulative Impact	Maximum Impact at Class I Area	Allowable Class I Area Increment
CO							
1-hour	23,000	40,000	281.3	10,228*	10,509	----	----
8-hour	10,000	10,000	153.5	4,189*	4,343	----	----
NO2							
1-hour	470	---	770.8	84*	855	----	----
Annual	---	100	20.5	5*	26	0.3	2.5
SO2							
1-hour	655	---	70.7	216^	287	----	----
3-hour	---	1300	51.6	---	---	8.1	25
24-hour	131	365	8.8	81^	90	0.5	5
Annual	---	80	1.8	11^	13	0.1	2
PM10							
24-hour	50	150	22.8	210*	233	2.0	10.0
Annual(arithmetic)		50	2.8	30*	33	0.1	5.0
Annual(geometric)	30		2.8	22*	25		

Footnotes:
* Highest values measured onsite during 12-month period (March 1990 - April 1991)
^ Highest values measured in Southeast Desert Air Basin during 3-year period (1988 - 1990)

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Table 31

Eagle Mountain Project
Landfill Gas Risk
Maximum Trace Concentrations

Landfill Gas Production Rate	46000	scfm	Maximum Groundlevel Impact	
=	66.24	MMscf/day	from Unit Emission Rate =	15.27 ug/m3
Gas Collection Efficiency =	80%		Unit Emission Rate =	1.00 gm/sec
Flare Gas Feed Rate =	36800	scfm	Ratio of Annual to	
Fugitive Gas Release =	9200	scfm	1-Hour Concentrations =	0.1

Toxic Gas	Mole. Weight	Max. Conc. (ppb)	Fugitive Landfill Emission Rate		Maximum Groundlevel Concentration - ug/m3		Unit Risk Value 1/(ug/m3)	70-Year Risk
			(lb/hr)	(gm/sec)	(1-Hour)	(Annual)		
Vinyl Chloride	62.50	12900	1.17	0.15	2.26	0.23	7.8E-05	1.76E-05
Benzene	78.11	11000	1.25	0.16	2.40	0.24	5.3E-05	1.27E-05
Dibromoethane	173.86	6	0.00	0.00	0.00	0.00	7.2E-05	2.10E-08
Dichloroethane	98.96	552	0.08	0.01	0.15	0.02	2.2E-05	3.36E-07
Dichloromethane	84.94	43000	5.31	0.67	10.22	1.02	1.0E-06	1.02E-06
Tetrachloroethene	165.83	53100	12.80	1.61	24.63	2.46	5.8E-07	1.43E-06
Tetrachloromethane	153.84	16	0.00	0.00	0.01	0.00	4.2E-05	2.89E-08
Trichloroethane	133.42	580	0.11	0.01	0.22	0.02	1.6E-05	3.46E-07
Trichloroethylene	131.40	15500	2.96	0.37	5.70	0.57	1.3E-06	7.41E-07
Trichloromethane	119.39	18	0.00	0.00	0.01	0.00	5.3E-06	3.19E-09
							TOTAL RISK =	3.43E-05

Table 32

Eagle Mountain Project
Landfill Gas Risk
Average Trace Concentrations

Landfill Gas Production Rate 46000 scfm
= 66.24 MMscf/day
Gas Collection Efficiency = 80%
Flare Gas Feed Rate = 36800 scfm
Fugitive Gas Release = 9200 scfm

Maximum Groundlevel Impact from Unit Emission Rate = 15.27 ug/m3
Unit Emission Rate = 1.00 gm/sec
Ratio of Annual to 1-Hour Concentrations = 0.1

Toxic Gas	Mole. Weight	Max. Conc. (ppb)	Fugitive Landfill Emission Rate (lb/hr)	(gm/sec)	Maximum Groundlevel Concentration - ug/m3 (1-Hour)	(Annual)	Unit Risk Value 1/(ug/m3)	70-Year Risk
Vinyl Chloride	62.50	6735	0.61	0.08	1.18	0.12	7.8E-05	9.18E-06
Benzene	78.11	3160	0.36	0.05	0.69	0.07	5.3E-05	3.66E-06
Dibromoethane	173.86	4	0.00	0.00	0.00	0.00	7.2E-05	1.40E-08
Dichloroethane	98.96	242	0.03	0.00	0.07	0.01	2.2E-05	1.47E-07
Dichloromethane	84.94	7880	0.97	0.12	1.87	0.19	1.0E-06	1.87E-07
Tetrachloroethene	165.83	11434	2.76	0.35	5.30	0.53	5.8E-07	3.08E-07
Tetrachloromethane	153.84	16	0.00	0.00	0.01	0.00	4.2E-05	2.89E-08
Trichloroethane	133.42	368	0.07	0.01	0.14	0.01	1.6E-05	2.20E-07
Trichloroethylene	131.40	4078	0.78	0.10	1.50	0.15	1.3E-06	1.95E-07
Trichloromethane	119.39	11	0.00	0.00	0.00	0.00	5.3E-06	1.95E-09
							TOTAL RISK =	1.39E-05

Table 34

Eagle Mountain Project
Effect of Mitigation on Project Emissions
(tons/year)

Activity	NOx	CO	PM10	VOC	SO2
			Without Mitigation		
Transfer Stations	309	94	33	28	39
Trains	1986	803	56	181	277
On-Highway Trucks	189	89	27	29	39
On-Site Vehicle Exhaust	515	173	38	30	53
On-Site Fugitive Dust*			140		
Landfill Gas Flares*	216	149	123	154	57
Project Total, Without Mitigation	3215	1308	417	422	465
			With Mitigation		
Transfer Stations	241	104	21	22	19
Trains	1775	803	51	181	197
On-Highway Trucks	189	89	27	29	39
On-Site Vehicle Exhaust	292	130	18	19	9
On-Site Fugitive Dust*			125		
Landfill Gas Flares*	216	149	123	154	57
Project Total, With Mitigation	2713	1275	365	405	321
REDUCTION DUE TO MITIGATION:					
Tons	502	33	52	17	144
Percent	16%	3%	12%	4%	31%

* Project design incorporated mitigation measures: see text for details.

Table 36

Maximum Impact of Proposed Eagle Mountain Project on Ambient Air Quality
(with mitigation)
(all concentrations in micrograms per cubic meter)

Pollutant/ Averaging Time	California Standards	National Standards	Maximum Offsite Concentration	Maximum Background	Maximum Cumulative Impact	Maximum Impact at Class I Area	Allowable Class I Area Increment
CO							
1-hour	23,000	40,000	137.8	10,228*	10,366	----	----
8-hour	10,000	10,000	57.5	4,189*	4,247	----	----
NO2							
1-hour	470	---	328.1	84*	412	----	----
Annual	---	100	4.6	5*	10	0.2	2.5
SO2							
1-hour	655	---	50.6	216^	267	----	----
3-hour	---	1300	26.7	---	---	3.0	25
24-hour	131	365	6.6	81^	88	0.4	5
Annual	---	80	0.7	11^	12	0.1	2
PM10							
24-hour	50	150	17.2	210*	227	1.7	10.0
Annual(arithmetic)		50	1.7	30*	32	0.1	5.0
Annual(geometric)	30		1.7	22*	24		

Footnotes:
* Highest values measured onsite during 12-month period (March 1990 - April 1991)
^ Highest values measured in Southeast Desert Air Basin during 3-year period (1988 - 1990)

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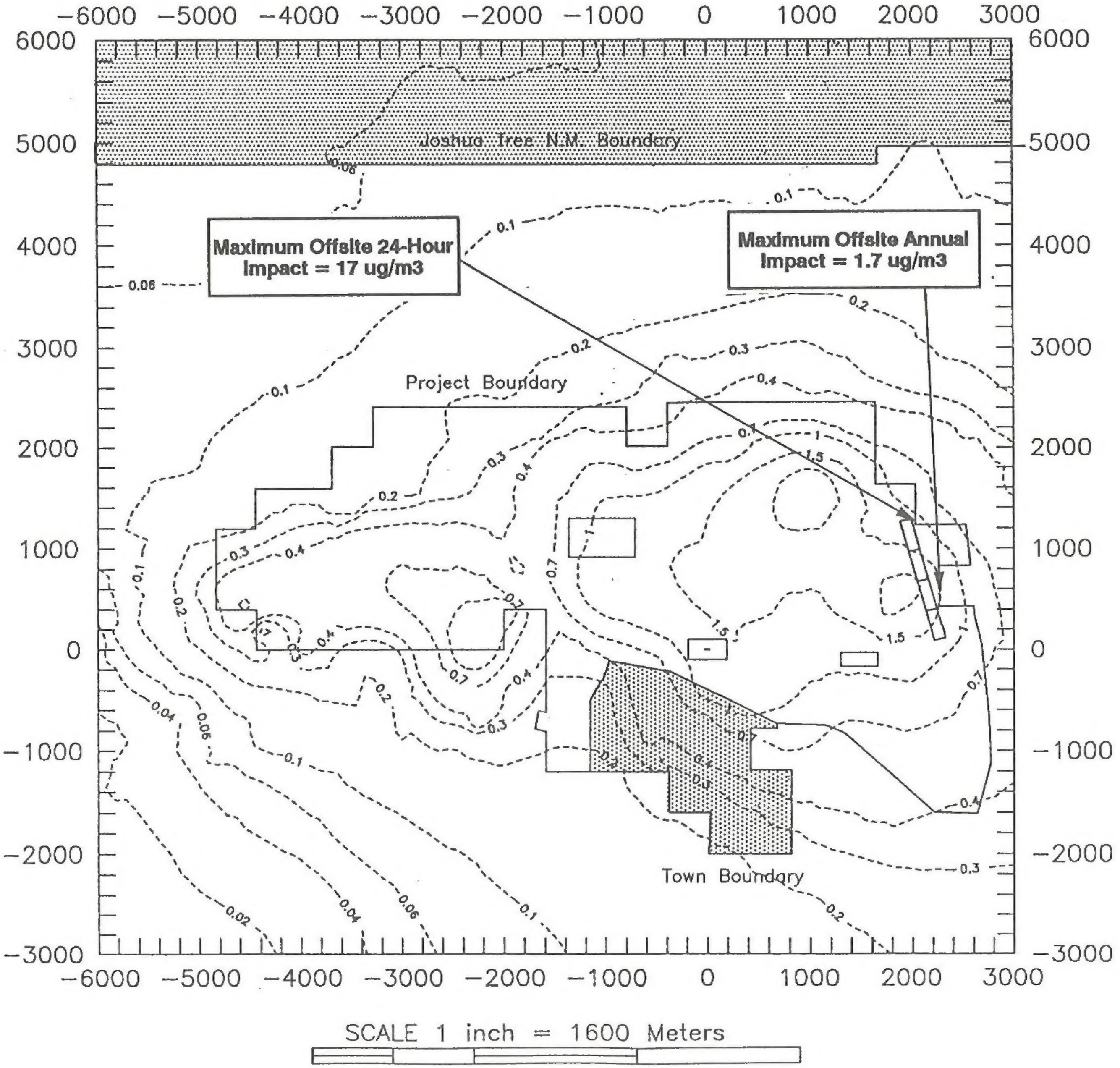
Eagle Mountain Project

PM10 Impacts – All Receptors

(ug/m3 – annual average)



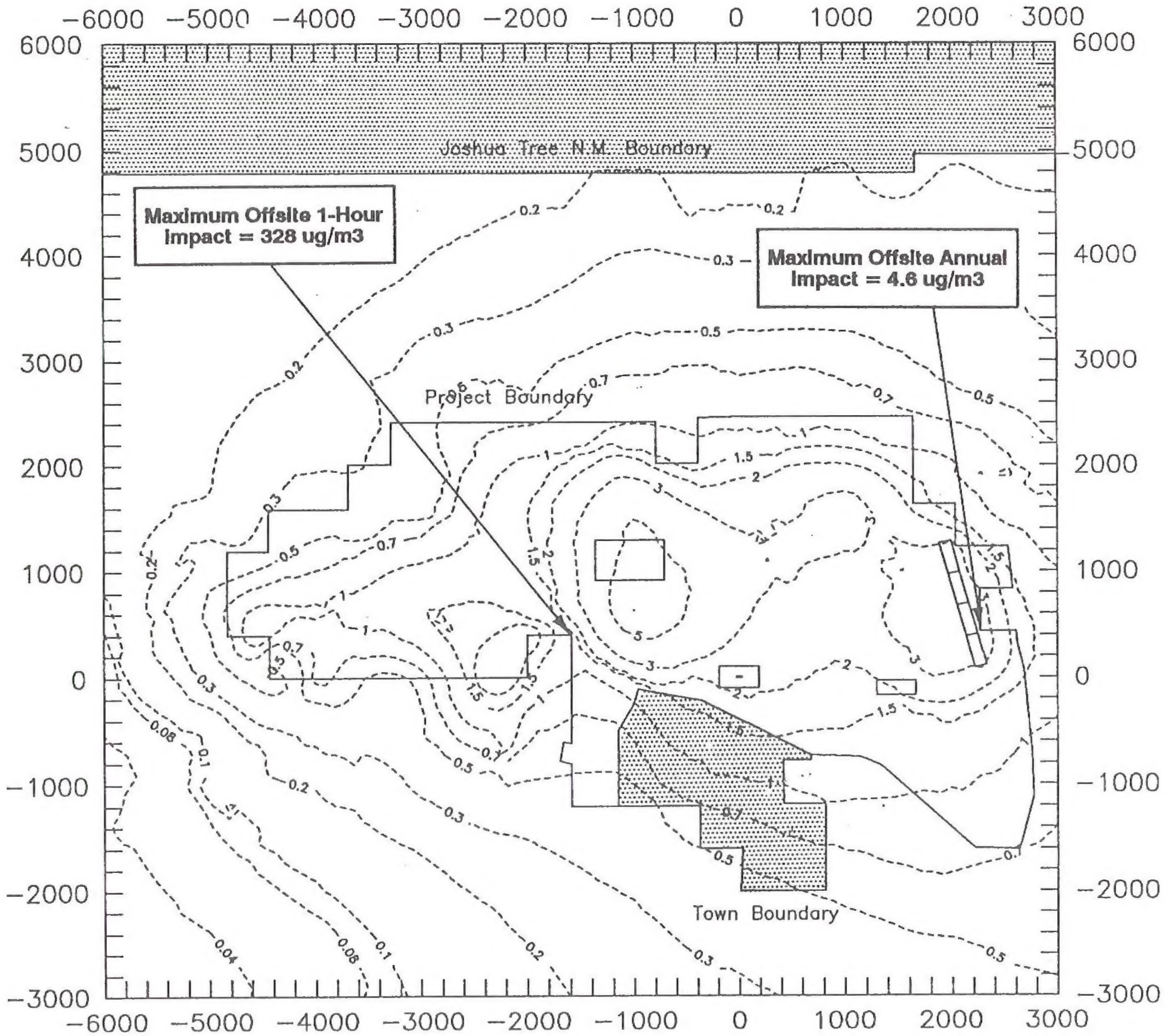
Maximum Offsite 24-Hour Impact = 17 ug/m3

Maximum Offsite Annual Impact = 1.7 ug/m3

SCALE 1 inch = 1600 Meters

Eagle Mountain Project

NOx Impacts – All Receptors
(ug/m3 – annual average)



SCALE 1 inch = 1600 Meters

Table 38

Assessment of Significance for Ozone
Eagle Mountain Project

Measure of Significance	Level	Project Without Mitigation Zero Baseline	Project With Mitigation Zero Baseline
Emissions Based Measures - Industrial			
AQMD BACT/OFFSETS	0 lbs/day	2,320	2,221
AQMD major NSR	100 tons/year	422	405
AQMD major PSD	25 tons/year	422	405
AQMD sig incr PSD	25 tons/year	422	405
EPA major source	100 tons/year	422	405
EPA major mod	40 tons/year	422	405
Ozone Measurement Accuracy and Reporting Precision			
ARB accuracy	0.54 pphm		
ARB reporting	1 pphm		
Other Measures			
Zero molecule	0 lbs/day	2,320	2,221

Table 39

Assessment of Significance for Oxides of Nitrogen
Eagle Mountain Project

Measure of Significance	Level	Project Without Mitigation	Project With Mitigation
		Zero Baseline	Zero Baseline
Emissions Based Measures - Industrial			
AQMD BACT/OFFSETS	0 lbs/day	17,612	14,864
AQMD major NSR	100 tons/year	3,215	2,713
AQMD major PSD	25 tons/year	3,215	2,713
AQMD sig incr PSD	25 tons/year	3,215	2,713
EPA major source	100 tons/year	3,215	2,713
EPA major mod	40 tons/year	3,215	2,713
Concentration Based Measures - Industrial Sources			
AQMD Class I ann	10 ug/m3 ann	27	26
EPA Class I ann	10 ug/m3 ann	27	26
EPA de minimum ann	14 ug/m3 ann	27	26
Measurement Accuracy and Reporting Precision			
ARB accuracy 1h	0.18 pphm 1-hr	18	15
ARB report 1h	1 pphm 1-hr	18	15
ARB report ann	0.1 pphm ann	1.4	1.4
Other Measures			
Zero molecule	0 lbs/day	17,612	14,864

Table 40

Assessment of Significance for Carbon Monoxide
Eagle Mountain Project

Measure of Significance	Level	Project Without Mitigation	Project With Mitigation
		Zero Baseline	Zero Baseline
Emissions Based Measures - Industrial			
AQMD BACT/OFFSETS	0 lbs/day	7,167	6,987
AQMD major NSR	100 tons/year	1,308	1,275
AQMD major PSD	25 tons/year	1,308	1,275
AQMD sig incr PSD	25 tons/year	1,308	1,275
EPA major source	100 tons/year	1,308	1,275
EPA major mod	40 tons/year	1,308	1,275
Concentration Based Measures - Industrial Sources			
EPA Class I 24 hr	1 ug/m3 24-hr	75	75
EPA de minimus 8h	575 ug/m3 8-hr	132	131
Measurement Accuracy and Reporting Precision			
ARB accuracy 1h	0.02 ppm 1-hr	0.16	0.16
ARB report 1h	1 ppm 1-hr	0.16	0.16
ARB report 8h	0.1 ppm 8-hr	0.12	0.12
Other Measures			
Zero molecule	0 lbs/day	7,167	6,987

Table 41

Assessment of Significance for Sulfur Dioxide
Eagle Mountain Project

Measure of Significance	Level	Project Without Mitigation	Project With Mitigation
		Zero Baseline	Zero Baseline
Emissions Based Measures - Industrial			
AQMD BACT/OFFSETS	0 lbs/day	2,545	1,761
AQMD major NSR	100 tons/year	465	321
AQMD major PSD	25 tons/year	465	321
AQMD sig incr PSD	25 tons/year	465	321
EPA major source	100 tons/year	465	321
EPA major mod	40 tons/year	465	321
Concentration Based Measures - Industrial Sources			
AQMD Class I ann	2 ug/m3 ann	7	6
AQMD Class I 24h	5 ug/m3 24-hr	26	25
AQMD Class I 3h	25 ug/m3 3-hr	64	58
EPA Class I ann	2 ug/m3 ann	7	6
EPA Class I 24h	5 ug/m3 24-hr	26	25
EPA Class I 3h	25 ug/m3 3-hr	64	58
EPA de minimus 24h	13 ug/m3 24-hr	26	25
Measurement Accuracy and Reporting Precision			
ARB accuracy 1h	0.33 pphm 1-hr	2.7	2.4
ARB reporting 1h	1 pphm 1-hr	2.7	2.4
Other Measures			
Zero molecule	0 lbs/day	2,545	1,761

Table 42

Assessment of Significance for Fine Particulates (PM10)
Eagle Mountain Project

Measure of Significance	Level	Project Without Mitigation Zero Baseline	Project With Mitigation Zero Baseline
Emissions Based Measures - Industrial			
AQMD BACT/OFFSETS	0 lbs/day	2,292	2,005
AQMD major NSR	100 tons/year	417	365
AQMD major PSD	25 tons/year	417	365
AQMD sig incr PSD	25 tons/year	417	365
EPA major source	100 tons/year	417	365
EPA major mod	40 tons/year	417	365
Concentration Based Measures - Industrial Sources			
AQMD Class I ann	5 ug/m3 ann	19	18
AQMD Class I 24h	10 ug/m3 24-hr	77	73
EPA Class I ann	5 ug/m3 ann	19	18
EPA Class I 24h	10 ug/m3 24-hr	77	73
EPA de minimus 24h	10 ug/m3 24-hr	77	73
Measurement Accuracy and Reporting Precision			
ARB accuracy 24h	1.2 ug/m3 24-hr	77	73
ARB reporting 24h	1 ug/m3 24-hr	77	73
ARB reporting ann	0.1 ug/m3 ann	19	18
Other Measures			
Zero molecule	0 lbs/day	2,292	2,005

Table 49

Maximum Impact of Reduced Operations Alternative on Ambient Air Quality

(without mitigation)
(all concentrations in micrograms per cubic meter)

Pollutant/ Averaging Time	California Standards	National Standards	Maximum Offsite Concen- tration	Maximum Background	Maximum Cumulative Impact	Maximum Impact at Class I Area	Allowable Class I Area Increment
CO							
1-hour	23,000	40,000	225.0	10,228*	10,453	----	----
8-hour	10,000	10,000	122.8	4,189*	4,312	----	----
NO2							
1-hour	470	---	616.7	84*	701	----	----
Annual	---	100	16.4	5*	21	0.3	2.5
SO2							
1-hour	655	---	56.6	216^	273	----	----
3-hour	---	1300	41.2	---	---	6.5	25
24-hour	131	365	7.1	81^	88	0.4	5
Annual	---	80	1.5	11^	13	0.1	2
PM10							
24-hour	50	150	18.3	210*	228	1.6	10.0
Annual(arithmetic)		50	2.3	30*	32	0.1	5.0
Annual(geometric)	30		2.3	22*	24		

Footnotes:
* Highest values measured onsite during 12-month period (March 1990 - April 1991)
^ Highest values measured in Southeast Desert Air Basin during 3-year period (1988 - 1990)

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Table 52

Maximum Impact of Reduced Operations Alternative on Ambient Air Quality

(with mitigation)
(all concentrations in micrograms per cubic meter)

Pollutant/ Averaging Time	California Standards	National Standards	Maximum Offsite Concen- tration	Maximum Background	Maximum Cumulative Impact	Maximum Impact at Class I Area	Allowable Class I Area Increment
CO							
1-hour	23,000	40,000	110.2	10,228*	10,338	----	----
8-hour	10,000	10,000	46.0	4,189*	4,235	----	----
NO2							
1-hour	470	---	262.5	84*	347	----	----
Annual	---	100	3.7	5*	9	0.2	2.5
SO2							
1-hour	655	---	40.5	216^	257	----	----
3-hour	---	1300	21.4	---	---	2.4	25
24-hour	131	365	5.3	81^	86	0.3	5
Annual	---	80	0.5	11^	12	0.1	2
PM10							
24-hour	50	150	13.8	210*	224	1.4	10.0
Annual(arithmetic)		50	1.3	30*	31	0.1	5.0
Annual(geometric)	30		1.3	22*	23		

Footnotes:
* Highest values measured onsite during 12-month period (March 1990 - April 1991)
^ Highest values measured in Southeast Desert Air Basin during 3-year period (1989 - 1990)

Revised 4/27/92

Table 67

No Project Alternative
Total Project Emissions

	(lb/day)					(ton/yr)				
Activity	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
Transfer Stations	1693	517	183	156	212	309	94	33	28	39
Trains	0	0	0	0	0	0	0	0	0	0
On-Highway Trucks	337	159	49	53	69	61	29	9	10	13
Onsite Vehicle Exhaust	1722	615	134	111	175	314	112	24	20	32
Onsite Fugitive Dust			721					132		
Landfill Gas Flares	1689	8164	676	1689	310	308	1490	123	308	57
PROJECT GRAND TOTAL	5441	9455	1763	2009	766	992	1725	321	366	141

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Table 68

Assessment of Significance for Ozone
Eagle Mountain Project - No Project Alternative

Measure of Significance	Level	Project Without Mitigation
		Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	2,009
AQMD major NSR	100 tons/year	366
AQMD major PSD	25 tons/year	366
AQMD sig incr PSD	25 tons/year	366
EPA major source	100 tons/year	366
EPA major mod	40 tons/year	366
Ozone Measurement Accuracy and Reporting Precision		
ARB accuracy	0.54 pphm	
ARB reporting	1 pphm	
Other Measures		
Zero molecule	0 lbs/day	2,009

Table 69

Assessment of Significance for Oxides Nitrogen Eagle Mountain Project - No Project Alternative

Measure of Significance	Level	Project Without Mitigation Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	5,441
AQMD major NSR	100 tons/year	992
AQMD major PSD	25 tons/year	992
AQMD sig incr PSD	25 tons/year	992
EPA major source	100 tons/year	992
EPA major mod	40 tons/year	992
Concentration Based Measures - Industrial Sources		
AQMD Class I ann	10 ug/m3 ann	27
EPA Class I ann	10 ug/m3 ann	27
EPA de minimum ann	14 ug/m3 ann	27
Measurement Accuracy and Reporting Precision		
ARB accuracy 1h	0.18 pphm 1-hr	18
ARB report 1h	1 pphm 1-hr	18
ARB report ann	0.1 pphm ann	1.4
Other Measures		
Zero molecule	0 lbs/day	5,441

Table 70

Assessment of Significance for Carbon Monoxide
Eagle Mountain Project - No Project Alternative

Measure of Significance	Level	Project Without Mitigation
		Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	9,455
AQMD major NSR	100 tons/year	1,725
AQMD major PSD	25 tons/year	1,725
AQMD sig incr PSD	25 tons/year	1,725
EPA major source	100 tons/year	1,725
EPA major mod	40 tons/year	1,725
Concentration Based Measures - Industrial Sources		
EPA Class I 24 hr	1 ug/m3 24-hr	75
EPA de minimus 8h	575 ug/m3 8-hr	132
Measurement Accuracy and Reporting Precision		
ARB accuracy 1h	0.02 ppm 1-hr	0.16
ARB report 1h	1 ppm 1-hr	0.16
ARB report 8h	0.1 ppm 8-hr	0.12
Other Measures		
Zero molecule	0 lbs/day	9,455

Table 71

Assessment of Significance for Sulfur Dioxide
Eagle Mountain Project - No Project Alternative

Measure of Significance	Level	Project Without Mitigation
		Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	766
AQMD major NSR	100 tons/year	141
AQMD major PSD	25 tons/year	141
AQMD sig incr PSD	25 tons/year	141
EPA major source	100 tons/year	141
EPA major mod	40 tons/year	141
Concentration Based Measures - Industrial Sources		
AQMD Class I ann	2 ug/m3 ann	7
AQMD Class I 24h	5 ug/m3 24-hr	26
AQMD Class I 3h	25 ug/m3 3-hr	64
EPA Class I ann	2 ug/m3 ann	7
EPA Class I 24h	5 ug/m3 24-hr	26
EPA Class I 3h	25 ug/m3 3-hr	64
EPA de minimus 24h	13 ug/m3 24-hr	26
Measurement Accuracy and Reporting Precision		
ARB accuracy 1h	0.33 pphm 1-hr	2.7
ARB reporting 1h	1 pphm 1-hr	2.7
Other Measures		
Zero molecule	0 lbs/day	766

Table 72

Assessment of Significance for Fine Particulate
Eagle Mountain Project - No Project Alternative

Measure of Significance	Level	Project Without Mitigation Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	1,763
AQMD major NSR	100 tons/year	321
AQMD major PSD	25 tons/year	321
AQMD sig incr PSD	25 tons/year	321
EPA major source	100 tons/year	321
EPA major mod	40 tons/year	321
Concentration Based Measures - Industrial Sources		
AQMD Class I ann	5 ug/m3 ann	19
AQMD Class I 24h	10 ug/m3 24-hr	77
EPA Class I ann	5 ug/m3 ann	19
EPA Class I 24h	10 ug/m3 24-hr	77
EPA de minimus 24h	10 ug/m3 24-hr	77
Measurement Accuracy and Reporting Precision		
ARB accuracy 24h	1.2 ug/m3 24-hr	77
ARB reporting 24h	1 ug/m3 24-hr	77
ARB reporting ann	0.1 ug/m3 ann	19
Other Measures		
Zero molecule	0 lbs/day	1,763

ATTACHMENT 6

CONSTRUCTION EMISSIONS AND SUGGESTED MITIGATION MEASURES

CONSTRUCTION EMISSIONS
EAGLE MOUNTAIN LANDFILL PROJECT

Construction of Eagle Mountain Project

Initial construction of the proposed Eagle Mountain Project is divided into four main construction phases: (1) improvement/extension of the existing Eagle Mountain Road; (2) construction of Phase I container handling facility including refurbishing existing warehouse and shop facilities; (3) reconstruction of the existing Eagle Mountain rail line; and (4) preparation of the first phase of the landfill. Improvement/extension of the existing Eagle Mountain Road will be the initial construction phase of the Eagle Mountain Project. After work begins on the Eagle Mountain Road improvements, the construction of the Phase I container handling facility, reconstruction of the existing Eagle Mountain rail line, and landfill construction will begin. The following paragraphs discuss each construction phase in more detail and describe the heavy equipment associated with construction of the Eagle Mountain Project.

The existing Eagle Mountain Road will be improved during the construction of the Eagle Mountain facility. Eagle Mountain Road runs north from its intersection with Interstate Highway 10 (approximately 4 miles west of Desert Center) to the Colorado River Aqueduct Eagle Mountain Pumping Plant. This road will be widened and improved to meet the design standards of the County of Riverside. This improvement to the Eagle Mountain Road will consist of widening the road, adding new aggregate base, new pavement, and additional drainage. In addition to improving the existing road, this construction phase will include an extension to the Eagle Mountain Road. The Eagle Mountain Road extension will be used to access the landfill from the northern terminus of the existing Eagle Mountain Road. The extension will begin from just south of the Metropolitan Water District Pumping Station and follow the alignment of the old Kaiser Truck Road. It will then be routed in a northerly direction into the container handling facility at the eastern edge of the project site. Road construction will initially consist of clearing the roadway. Next, the rough earth work will take place to bring the roadway up to final grade. Finally, sub-base and aggregate base will be laid down before the asphalt concrete is applied. It will be necessary to construct stream crossings and add drainage systems to portions of the roadway to ensure year round operation.

In addition, the construction of the Eagle Mountain Road extension will also include the construction of the right-of-way for a new rail spur. The new rail spur will begin at the existing Eagle Mountain rail line at a point southeast of the existing landing strip and terminate in the Phase II container handling yard. The new rail spur will be approximately 2 miles long and will carry rail traffic to the eastern portion of the project site. The first phase of construction will involve only the rail right-of-way which will parallel the Eagle Mountain Road extension. Further development of the rail spur will not occur for several years after the start of the project. Diesel scrapers, dump trucks, bulldozers, graders, frontend loaders, backhoes, paving machines, and compactors will be used during road and rail spur construction (operating approximately 8 hours per day).

The development of the Eagle Mountain Project will also include the construction of the Phase I container handling yard. The container handling yard will be used to receive and store containers from trucks and trains. Construction of the Phase I container handling yard will include the following: (1) renovation of existing buildings for use as facilities to repair and maintain landfill equipment and rolling stock; (2) construction of a wash facility used to keep haul vehicles, heavy equipment, and refuse containers free of debris; (3) construction of office facilities; (4) construction of a parallel rail spur at the existing terminus of the Eagle Mountain rail line; (5) construction of access roads and vehicle parking; and (6) construction of drainage systems. Construction of plant structures will consist of clearing facility building sites, adding aggregate to bring facility building sites to grade, and adding plumbing and electrical systems. Diesel bulldozers, scrapers, frontend loaders, compactors, graders, backhoes, paving machines, and dump trucks will be used during the construction of the Phase I container handling yard (operating approximately 8 hours per day).

Construction of the Eagle Mountain Project will also include reconstruction of the existing Eagle Mountain industrial rail line. The entire length of the 52 mile long Eagle Mountain industrial rail line will be inspected. Only portions of the rail line that need repair will be worked on. The reconstruction of these portions of the rail line will consist of replacing rails, ties, and ballast. In addition, the reconstruction of the rail line will include repair and improvement of existing drainage facilities. Diesel scrapers, bulldozers, graders, dump trucks, frontend loaders, a rail laying machine, backhoes, and compactors will be used to reconstruct the Eagle Mountain rail line (operating approximately 8 hours per day).

Finally, construction of the Eagle Mountain Project will consist of preparation of the landfill to accept refuse. Landfill preparation activities will include leveling and grading of certain areas, scaling of loose rock, and the construction of protective works to prevent damage or injury from falling rock. The main Eagle Mountain South haul road will be extended from the Phase II area, widened where necessary, and be permanently paved. Permanent drainage works will be installed consisting of the construction of dikes, drainage channels, and sedimentation basins around certain areas of the landfill. Preliminary development of landfill gas and leachate collection and treatment facilities will involve the construction of leveled areas to permit the installation of tanks and other processing equipment. As with other areas of construction within the project, diesel-powered bulldozers, graders, and trucks will be used. It should be noted that the construction activities associated with the initial preparation of the landfill will continue during the operation of the project.

Consequently, the emission estimates contained in the Draft Environmental Impact Report for the Eagle Mountain Project include the emissions for this phase of construction.

A portable asphalt plant and a portable concrete batch plant will be operated during the construction phase of the Eagle Mountain Project. The temporary plants will be located near the existing Eagle Mountain coarse tailing piles. The purpose of these plants is to supply asphalt and concrete for road and plant site building construction. Due to the remote location of the Eagle Mountain facility, it is necessary to use temporary onsite asphalt and concrete batch plants rather than haul these materials from existing asphalt and concrete batch plants located in Riverside County.

The improvement/extension of the Eagle Mountain Road and extension of the industrial rail line will be the first of the three construction phases. The improvements to the Eagle Mountain Road and rail line extension are scheduled to take approximately 20 weeks. Within a few weeks after construction begins on the Eagle Mountain Road, site preparation for the container handling facility, reconstruction of the existing industrial rail line, and landfill development will begin. Construction of the Phase I container handling facility is scheduled to take approximately 90 days to complete. The reconstruction of the industrial rail line and landfill development are scheduled to take approximately 60 days to complete. Therefore, the maximum emissions during construction of the Eagle Mountain facility will occur a few weeks after work begins on improving the Eagle Mountain Road when construction of the container handling facility, reconstruction of the industrial rail line, landfill development, and Eagle Mountain Road construction will occur simultaneously.

Fugitive emissions from the construction of the Eagle Mountain Project result from: (1) dust entrained during excavation and grading at the construction sites; (2) dust entrained during travel on unpaved haul roads and across unpaved construction sites; (3) dust entrained during aggregate and soil loading and unloading operations; (4) dust entrained from raw material transfer at the portable asphalt and concrete batch plants; and (5) wind erosion of areas disturbed during construction activities. Heavy equipment exhaust emissions result from: (1) exhaust from the heavy equipment used for excavation and construction; (2) exhaust from the water trucks used to control construction dust emissions; (3) exhaust from Diesel generators located at the temporary asphalt and concrete batch plants; and (4) exhaust from heaters located at the temporary asphalt plant.

Available Mitigation Measures

Mitigation of Heavy Equipment Emissions

Exhaust pollutant emissions from the Diesel heavy equipment used during project construction will contribute to the overall emissions during the construction phase of the Eagle Mountain Project. Measures which could be taken to mitigate these emissions include the following:

1. operational measures, such as limiting time spent with the engine idling by shutting down equipment when not in use;
2. regular preventive maintenance to prevent emission increases due to engine problems;
3. use of low sulfur and low aromatic fuel meeting California standards for motor vehicle Diesel fuel;
4. use of turbocharger and intercooled Diesel engines when available, with retarded injection timing;
5. use of low-emitting Diesel engines meeting California emissions standards for highway trucks; and/or
6. electrification of temporary asphalt and concrete batch plants

Operational measures to reduce emissions — Operational measures to conserve fuel and reduce emissions include minimizing engine idle time and using only the number of machines required for a given volume of material handled. Idle time will be minimized by instructing equipment operators to shut down their machines rather than letting them idle for more than fifteen minutes. Operational managers will be instructed to schedule machines and operators to match the anticipated material volume. This will help to reduce operating costs and wear and tear on equipment as well as emissions.

Preventive maintenance — All construction equipment should be subject to regular preventive maintenance in order to detect and prevent mechanical problems which can lead to increased emissions. These mechanical problems include clogged air filters, worn or damaged turbochargers, and problems with the fuel injection system. Equipment operators and supervisors should be instructed to report any evidence of excessive smoke or other symptoms so that the equipment can be scheduled for maintenance in a timely fashion.

Low sulfur/low aromatic fuel — California Air Resources Board regulations limiting the sulfur and aromatic content of motor vehicle Diesel fuel will take effect in 1993. According to California Air Resources Board staff, construction machinery is included in the California Air Resources Board's expanded definition of a "motor vehicle". Thus, this regulation will require all construction equipment to use low-sulfur/low aromatic fuel. Since construction equipment engines are technically similar to those used in trucks, the reduction in emissions will probably be of the same order as that projected for truck engines by California Air Resources Board. The use of low-sulfur fuel will reduce SO_2 emissions by 90%, and will reduce PM_{10} emissions by roughly 0.07 g/BHP-hr, which is roughly 10-20% of anticipated PM_{10} emissions. Based on California Air Resources Board's projections for truck engines, the reduction in aromatic content should reduce NOx emissions by about 4%, and lead to a further 10-20% reduction in PM_{10} emissions.

Turbocharging/intercooling/retarded injection timing — NOx and particulate emissions from Diesel engines can be reduced through a combination of turbocharging, intercooling (to the lowest temperature practical), and retarded injection timing, especially at high loads. Turbocharger and intercooled engines should be chosen for all major Diesel equipment used in the construction of the project, unless (a) there are no suitable equipment models available with turbocharging and intercooling, either as standard equipment or as an available option; or (b) the manufacturer demonstrates that the engine achieves similar emissions performance by some other means. This latter exception would include on-highway certified engines, or engines meeting California Air Resources Board emission standards for construction equipment.

Except in the case of engines which are already emission-controlled (in which case injection timing is normally retarded already), all Diesel engines in construction equipment should have their fuel injection timing adjusted to a retarded setting. The degree of timing retardation used should be chosen to reduce NOx as much as possible, while minimizing the increase in smoke, PM_{10}, and VOC emissions due to the retarded timing. The optimal degree of timing retardation will vary from one engine model to another, and should be selected in consultation with the engine manufacturer.

Use of on-highway engines — In addition to turbocharging, low-temperature intercooling, and retarded injection timing, Diesel engines certified to meet California's 1991 emission standards for on-highway vehicles will exhibit a number of other emissions-related modifications and control technologies. These will generally include electronic control of fuel injection timing and quantity, increased fuel injection pressure, and optimization of piston and combustion chamber design to reduce emissions. These engines will be required to emit no more than 5.0 g/BHP-hr NOx and 0.25 g/BHP-hr of particulate matter. Achieving these targets will require extensive engine optimization, so that these on-highway certified engines will generally exhibit lower emissions overall than off-highway engines retrofitted with specific emissions controls. Engines meeting 1994 on-highway standards will achieve even lower PM_{10} emissions, probably through the use of catalytic trap-oxidizers or catalytic converters in conjunction with still more advanced emission control technology.

It may be possible to use these engines (or similar engines utilizing nearly the same technology) in construction equipment, such as the bulldozers, compactors, loaders, scrapers, and off-highway trucks. This will not always be possible, however, due to the important differences in duty cycle, torque rise requirements, engine mounting, and cooling requirements between construction machinery and on-highway trucks. The feasibility of using an on-highway certified engine should be reviewed for each piece of construction equipment, and such engines should be used unless (1) there is no suitable engine available or (2) the mounting and installation requirements, or duty cycle limitations, make it infeasible to use any available engines in the specific equipment under consideration.

Electrification -- Replacement of the Diesel engine electric generators used for the temporary asphalt plant and concrete batch plant with power supplied directly from the utility grid system would produce virtually a 100% reduction in exhaust emissions for this equipment.

Mitigation for Fugitive Dust Impacts

Fugitive dust emissions due to material handling and the passage of vehicles over paved and unpaved roads will contribute to the overall emissions during construction of the proposed Eagle Mountain facility. Primary sources will include the movement of vehicles over paved and unpaved roads, the excavation of soil, the spreading and compaction of soil and aggregate, and wind erosion of disturbed areas.

Road Surfaces — Fugitive dust emissions from unpaved road surfaces should be mitigated by either water application or chemical dust palliative application. For unpaved roads and parking lots which are very temporary, frequent watering should be used to maintain surface moisture contents above 4%. At maximum onsite traffic levels and peak evaporation rates, the water application rate may reach 3 gallons per square yard per hour in order to maintain the 95% control efficiency.

Chemical dust suppressants applied to the surface of unpaved haul roads should be used to control fugitive dust emissions. The solution application rate will depend on the type of additive used (i.e., asphalt emulsion, petroleum resin, acrylic cement, etc.) and concentration of the solution. Research data should be used to select two to four commercial products for onsite testing during project startup. Demonstration sections of treated roadway should be visually inspected on a daily basis to determine the duration of dustless operation. The additive which is most cost-effective in maintaining negligible visible emissions should be chosen for ongoing project use. The results of the field study should also be used to determine the necessary chemical reapplication interval.

Fugitive dust emissions from paved road travel should be mitigated by mechanical sweeping of road surface to remove buildup of loose material. The paved haul roads should be inspected daily to determine the frequency of surface sweeping necessary to minimize dust emissions. In addition, chemical stabilization of blow sand areas adjacent to paved haul roads should be performed to minimize fugitive dust emission.

Soil Excavation — Fugitive dust emissions from the excavation of soil at the construction sites should be mitigated by prewatering. The moisture content which achieves nearly dustless conditions upon excavation and loadout of the soil should be used as a standard operating practice.

Temporary Concrete Batch Plant — Fugitive dust emissions from batch loading and material transport at the concrete batch plant should be mitigated with the installation and operation of spray nozzles or filters at all open transfer points.

Temporary Asphalt Plant — Fugitive dust emissions from batch loading and material transport at the asphalt plant should be mitigated with the installation and operation of spray nozzles or filters at all open transfer points.

Wind Erosion — Fugitive dust emissions from wind erosion of inactive areas disturbed from construction activities should be mitigated by compacting and treating with a chemical dust suppressant or protected with a fabric cover.

Mitigation Measures Recommended during Initial Construction of Project

Based on the discussion in the preceding section, the following mitigation measures are recommended during the initial construction of the Eagle Mountain Project.

Mitigation Measure MC-1: Construction Equipment Operating Procedures

Mine Reclamation Corporation and its contractors should ensure that equipment operators at the project construction site shut down their engines if the equipment will be idle for fifteen minutes or longer. The number of machines and operators to match the anticipated material volumes should be scheduled to avoid excessive queueing.

Mine Reclamation Corporation should ensure that Diesel-fueled equipment at the project construction site receive regular preventive maintenance, in accordance with the engine manufacturers' recommendations. This maintenance should include daily visual checks for excessive smoke by the operations or maintenance staff. Equipment which is observed to have excessive opacity, in excess of 20%, should be removed from service at the end of the next work shift, and adjusted and/or repaired before resuming operation at the construction site.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-2: Diesel Fuel for Construction Equipment

All Diesel-fueled equipment at the project construction site should be fueled with Diesel fuel that meets the requirements of the California Air Resources Board for on-highway motor vehicle Diesel fuel in the South Coast Air Basin. The equipment to use this fuel includes the oil fired heaters located at the temporary asphalt plant. Mine Reclamation Corporation should maintain a record of all Diesel fuel purchases that includes a statement by the supplier that the fuel complies with this requirement.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-3: On-Highway Engines for Construction Equipment

Prior to the initial construction of the proposed project, Mine Reclamation Corporation should evaluate the feasibility of operating heavy-duty Diesel construction equipment with engines which are certified by the California Air Resources Board for use in on-highway trucks. If such engines are available, Mine Reclamation Corporation should operate the construction equipment with equivalent on-highway engines, unless (1) there is no suitable engine available; or (2) the mounting and installation requirements, or duty cycle limitations, make it infeasible to use available on-highway engines in that equipment.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-4: Low NOx Engine Design for Construction Equipment

For any Diesel-fueled construction equipment for which there are no suitable on-highway equivalent engines, Mine Reclamation Corporation should operate the equipment with engines which are equipped with turbochargers and intercoolers (or aftercoolers). In addition, Mine Reclamation Corporation should maintain these engines with the fuel injection timing retarded to a level recommended by the engine manufacturer for reduced NOx emissions, but will not result in excessive visible smoke emissions.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-5: Electrification of Asphalt Plant

Mine Reclamation Corporation should use an electric version of the temporary asphalt plant, unless the distance between a suitable power source and the asphalt plant make it infeasible for this equipment.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-6: Electrification of Concrete Batch Plant

Mine Reclamation Corporation should use an electric version of the temporary concrete batch plant, unless the distance between a suitable power source and the concrete batch plant make it infeasible for this equipment.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-7: Unpaved Road and Parking Lot Surfaces

Mine Reclamation Corporation should apply chemical dust suppressants and/or water as a dust suppressant to all unpaved road and parking lot surfaces during construction operations. The chemical dust suppressant should be selected based on a field evaluation of candidate suppressants conducted upon startup of the project.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-8: Paved-Road Travel

Mine Reclamation Corporation should maintain a 2-foot freeboard height and/or cover trucks using offsite paved haul roads.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-9: Soil/Aggregate Excavation

Mine Reclamation Corporation should pre-water all areas where soil/aggregate excavation will take place.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-10: Asphalt Plant

Mine Reclamation Corporation should install and operate water sprays or filters on all asphalt plant aggregate open transfer points.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-11: Concrete Batch Plant

Mine Reclamation Corporation should install and operate water sprays or filters on all concrete batch plant aggregate, sand, and portland cement open transfer points.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-12: Wind Erosion

As needed Mine Reclamation Corporation should compact and treat with a chemical dust suppressant or protect with a fabric cover all inactive areas disturbed by construction activities to minimize wind erosion.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-13: Permanent Road Surfaces

Mine Reclamation Corporation should periodically clean with mechanical sweepers all paved roads used by haul trucks to minimize the buildup of loose surface material.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-14: District Rule 403

Mine Reclamation Corporation should ensure that all excavation, grading, and soil removal operations comply with SCAQMD Rule 403.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Mitigation Measure MC-15: Blow Sand Areas

Mine Reclamation Corporation should chemically stabilize blowsand areas adjacent to paved haul roads in the project area.

Implemented by: Mine Reclamation Corporation
Monitored by: SCAQMD

Estimation of Emissions with Mitigation Measures

Tables 1-1 through 1-4 show the estimated daily heavy equipment exhaust and fugitive dust emissions with recommended mitigation measures. Table 1-5 shows the total daily emissions associated with construction of the Eagle Mountain Project. The data show that the recommended mitigation measures have the greatest benefits for reducing emissions of particulates, oxides of nitrogen, and sulfur dioxide. The particulate reductions are due to recommended dust suppression mitigation measures for the excavation areas and unpaved haul roads. The oxides of nitrogen reductions are due to the use of low NOx emitting engines in construction equipment. The sulfur dioxide reductions are due to the use of ultra-low sulfur fuel in all Diesel burning construction heavy equipment. The use of this fuel results in associated reductions in particulate matter emissions as well.

Table 1-1
Heavy Equipment Exhaust Emissions
(excluding equipment directly associated with landfill area)

Equipment Type	Number	Hr/Day	Gal/Hr(1)	Emission Factors(3) (lb/1000 gal)					Emissions (lb/day)				
				NOx	CO	PM	HC	SO2	NOx	CO	PM	HC	SO2
Bulldozers (CAT. D8N)(2)	7	8	10.0	234.79	97.83	15.65	15.65	7.10	131.48	54.78	8.76	8.76	3.98
Frontend Loaders	4	8	5.0	234.79	97.83	15.65	15.65	7.10	37.57	15.65	2.50	2.50	1.14
Dump Trucks	16	8	6.0	195.66	97.83	9.78	11.74	7.10	150.27	75.13	7.51	9.02	5.45
Motor Graders	4	8	7.0	234.79	97.83	15.65	15.65	7.10	52.59	21.91	3.51	3.51	1.59
Compactors	4	8	6.0	234.79	97.83	15.65	15.65	7.10	45.08	18.78	3.00	3.00	1.36
Backhoes	3	8	3.0	234.79	97.83	15.65	15.65	7.10	16.90	7.04	1.13	1.13	0.51
Scrapers (CAT. 631E)(2)	18	8	15.5	234.79	97.83	15.65	15.65	7.10	524.05	218.36	34.93	34.93	15.85
Water Trucks	4	8	20.0	234.79	97.83	15.65	15.65	7.10	150.27	62.61	10.02	10.02	4.54
Paving Machines (CAT. AP-800)(2)	3	8	3.0	234.79	97.83	15.65	15.65	7.10	16.90	7.04	1.13	1.13	0.51
Rail Laying Machine(4)	1	8	4.5	234.79	97.83	15.65	15.65	7.10	8.45	3.52	0.56	0.56	0.26
Asphalt Plant Heaters(5)	1	8	200	0.036	0.038	0.0032	0.028	0.0146	57.60	60.80	5.12	44.80	23.36
Generators(6)	2	8		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
								Total =	1191.17	545.65	78.17	119.36	58.55

Footnotes:

(1) Heavy equipment hourly fuel consumption from Energy Section of Draft EIR for Eagle Mountain Landfill project

(2) Heavy equipment hourly fuel consumption from "Caterpillar Performance Handbook", October 1989, assuming medium load factor

(3) Heavy equipment emission factors based on Sierra Research's 1995 projections for low NOx Diesel engines using 0.05% sulfur fuel

(4) Heavy equipment hourly fuel consumption from "Caterpillar Performance Handbook", October 1989, assuming medium load factor, assuming same fuel consumption as for Caterpillar Model 571G pipelayer

(5) Hourly process rate in terms of tons of asphalt/hr rather than gallons of fuel/hr. Emission factors in terms of lbs/ton rather than lb/1000 gal. Emission factors from AP-42, Section 8.1 (Asphaltic Concrete Plants), Tables 8.1-4 and 8.1-5 assuming a fuel sulfur content of 0.05% and PM10 emissions controlled with a baghouse.

Table 1-2
Heavy Equipment Exhaust Emissions
(equipment directly associated with landfill area)

				Emission Factors (lb/1000 gal)*					Emissions (lb/day)				
	Number	Hr/Day	Gal/Hr	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
SOIL EXCAVATION													
Rubber-Tired Loader	2	10	11	234.79	97.83	15.65	15.65	7.10	51.65	21.52	3.44	3.44	1.56
SOIL HAULING													
Off-Highway Truck	1	12.5	7.0	195.66	97.83	9.78	11.74	7.10	17.12	8.56	0.86	1.03	0.62
SOIL SPREADING													
Bulldozer	3	10	14	234.79	97.83	15.65	15.65	7.10	98.61	41.09	6.57	6.57	2.98
DUST CONTROL AND ROAD MAINTENANCE													
12,000-Gal Tanker	2	11	20	195.66	97.83	9.78	11.74	7.10	86.09	43.04	4.30	5.17	3.12
Motor Grader	2	10	7	234.79	97.83	15.65	15.65	7.10	32.87	13.70	2.19	2.19	0.99
LINER CONSTRUCTION													
Frontend Loader	1	8	5	234.79	97.83	15.65	15.65	7.10	9.39	3.91	0.63	0.63	0.28
Pugmill	1	8	(Electric)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Truck	1	8	6	195.66	97.83	9.78	11.74	7.10	9.39	4.70	0.47	0.56	0.34
Bulldozer	1	8	6	234.79	97.83	15.65	15.65	7.10	11.27	4.70	0.75	0.75	0.34
Compactor	1	8	6	234.79	97.83	15.65	15.65	7.10	11.27	4.70	0.75	0.75	0.34
BENCH CLEARING													
Bulldozer	1	8	6	234.79	97.83	15.65	15.65	7.10	20.54	8.56	1.37	1.37	0.62
MISCELLANEOUS													
Backhoe	1	2	3	234.79	97.83	15.65	15.65	7.10	1.41	0.59	0.09	0.09	0.04
Utility Truck	1	2	5	195.66	97.83	9.78	11.74	7.10	1.96	0.98	0.10	0.12	0.07
Grader	1	2	5	234.79	97.83	15.65	15.65	7.10	2.35	0.98	0.16	0.16	0.07
				GRAND TOTAL, lb/day					353.9	157.0	21.7	22.8	11.4

Reference:

* Heavy equipment emission factors based on Sierra Research's 1995 projections for low NOx Diesel engines using 0.05% sulfur fuel.

Table 1-3
Fugitive Dust Emissions
(excluding equipment directly associated with landfill area)

Activity	Daily Process Rate	Units	Emission(1) Factor (lb/unit)	TSP Emission Rate (lb/day)	PM10/TSP(2)	Uncontrolled PM10 Emission Rate (lb/day)	Control(4) Efficiency (%)	Controlled PM10 Emission Rate (lb/day)
Dump Truck Hauling	991	VMT	18.41	18245.26	0.36	6568.29	95	328.41
Scraper Hauling	171	VMT	20.54	3514.06	0.36	1265.06	95	63.25
Scraper Excavation	144	Hrs	34.23	4929.41	0.28	1380.24	90	138.02
Bulldozer Excavation	56	Hrs	34.23	1916.99	0.28	536.76	90	53.68
Frontend Loader Operation	32	Hrs	0.04	1.28	0.77	0.99	30	0.69
Backhoe Operation	24	Hrs	0.04	0.96	0.77	0.74	30	0.52
Grader Operation	32	Hrs	0.23	7.36	0.54	3.97	50	1.99
Batch Loading Dump Trucks	7438	Tons	0.003	20.21	0.35	7.07	0	7.07
Batch Unloading Trucks/Scrapers	14875	Tons	0.003	40.41	0.35	14.14	0	14.14
Concrete Batch Plant								
Aggregate Bin Loading	155	Tons	0.029	4.50	0.35	1.57	80	0.31
Portland Cement Bin Loading	25	Tons	0.27	6.75	0.35	2.36	95	0.12
Weigh Hopper Loading	180	Tons	0.02	3.60	0.35	1.26	95	0.06
Mixer Loading	180	Tons	0.04	7.20	0.35	2.52	95	0.13
Asphalt Plant								
Transfer Points(3)	1600	Tons	0.008	13.04	0.35	4.56	95	0.23
Batch Loading(3)	1600	Tons	0.003	4.35	0.35	1.52	80	0.30
Wind Erosion								
Road/Rail Extensions	47850	Sq. Ft.	0.010	459.62	0.5	229.81	0	229.81
Container Handling Facility	76125	Sq. Ft.	0.010	731.22	0.5	365.61	0	365.61
Rail Reconstruction	34674	Sq. Ft.	0.010	333.06	0.5	166.53	0	166.53
							Total =	1370.89

Table 1-3
(Footnotes)

Footnotes:

(1) a. Batch loading and unloading emission factor is computed from AP-42, 11.2.3-3 (Aggregate Handling), with 9.3 mph average wind speed (from onsite monitor) and 4% moisture content

b. Unpaved road travel emission factor is computed from AP-42, 11.2.1 (Unpaved Roads), with silt content of 6%, average vehicle speed of 25 mph, number of days of rainfall equals 20 (from Figure 11.2.1-1), average scraper weight of 67 tons, average dump truck weight of 30 tons

c. Scraper and Bulldozer spreading/excavation emission factors computed from AP-42, 8.24-5 (Bulldozing Overburden) assuming 20% silt content and 4% moisture content. Grader, frontend loader, and backhoe emission factors computed from AP-42, 8.24-5 (Western Surface Coal Mines), with vehicle speed of 2 mph (for grader), vehicle speed of 1 mph (for backhoe and loader).

d. Conveyor transfer point emission factor computed from AP-42, 11.2.3-3, 1988 (Aggregate Handling and Storage Piles, continous drop), average wind speed = 9.3 mph (from onsite monitor), assumed 4% moisture content

e. Wind erosion dust emission factor computed from EPA's Control of Open Fugitive Dust Sources, September 1988, EPA# 450/3-88-008, using threshold friction velocity of 0.32 m/sec, roughness height of 0.000731 m (from Table 6-2, disturbed desert), and fastest mile wind speed of 24.5 m/s (maximum one-hour average wind speed recorded by onsite monitor (47.4 mph) converted to fastest mile speed)

(2) a. Unpaved road PM10 factor from AP-42, 11.2.1 (Unpaved Roads)

b. Batch loading and unloading PM10 factor from AP-42, 11.2.3-3 (Aggregate Handling)

c. Transfer point PM10 factor from AP-42, 11.2.3-3 (Aggregate Handling)

d. The PM10 conversion factor for grader, backhoe, and loader from AP-42, 8.24-5 (Western Surface Coal Mines, grading)

e. The PM10 conversion factor for bulldozer and scraper from AP-42, 8.24-5 (Western Surface Coal Mines, bulldozing)

f. The PM10 conversion factor for wind erosion from EPA's Control of Open Fugitive Dust Sources, September 1988, EPA# 450/3-88-008

g. Concrete batch plant loading and unloading PM10 factor from AP-42, 11.2.3-3 (Aggregate Handling)

(3) Assuming three conveyor transfer points and a single batch loading point for aggregate

(4) a. Unpaved road travel control efficiency from application of chemical dust suppressant over unpaved road, see "Evaluation of the Effectiveness of Chemical Dust Supressants on Unpaved Roads", MRI, Nov. 1987, page 61

b. Asphalt and concrete batch plant transfer points control efficiency from installation of enclosed transfer points vented to baghouse (estimated from vendor literature and MD-20 "Control of Particulate Emissions" for pulse-jet baghouses)

c. Asphalt and concrete batch plant aggregate bin loading and batch loading control efficiency from inspection of dump hoppers equipped with hollow cone spray nozzles

d. Bulldozer and scraper excavation contol factors are estimated from field data collected during the excavation of tailings at a former asbestos mine near Copperopolis, California.

e. The control factors are estimated from EPA-450/3-88-008 with 0.80 water evaporation rate, 4 vehicle passes per hour, 8 hour water application interval, and 0.15 gallon/yd2 water application rate for grading, and are estimated from inspection of pipeline construction projects for backhoe and loader.

Table 1-4
Fugitive Dust Emissions
(equipment directly associated with landfill area)

Activity	Daily Process Rate	Process Rate Units	Emission Factor* (lb/unit)	Control Factor* (%)	TSP Emission Rate (lb/day)	PM10 Factor* (%)	PM10 Emission Rate (lb/day)
Soil/Aggregate Excavation	10	hr	5.70	90%	5.70	0.13	0.75
Soil/Aggregate Processing	6000	ton	0.27	89%	181.59	0.52	95.18
Truck Loading	6000	ton	0.01	0%	63.60	0.50	31.80
Soil/Aggregate Hauling	148	VMT	16.80	95%	124.13	0.22	27.31
Soil/Aggregate Dumping	6000	ton	0.01	0%	63.60	0.50	31.80
Soil/Aggregate Spreading	10	hr	5.70	0%	57.00	0.13	7.50
Road Watering	154	mi	9.38	90%	144.46	0.22	31.78
Road Grading	40	mi	0.23	50%	4.53	0.54	2.44
Liner Excavation	8	hr	34.23	90%	27.39	0.28	7.70
Liner Hauling	120	VMT	9.38	90%	112.56	0.22	24.76
Bench Clearing	8	hr	13.10	30%	73.33	0.16	11.87
Backhoe	2	hr	0.04	30%	0.06	0.76	0.04
Utility Truck	2	mi	3.79	90%	0.76	0.22	0.17
Grader	2	hr	0.23	50%	0.23	0.54	0.12
Windblown Fugitive Dust							0.18
						TOTAL =	273.4

*See following Footnotes.

Table 1-4
(Footnotes)

1. Soil/Aggregate Hauling, Road Watering, Liner Hauling, and Utility Truck Use: The emission factors are computed from AP-42 "Compilation of Air Pollutant Emission Factors", 11.2.6-1 (Industrial Paved Roads,), using unpaved entry areas (multiplier = 7), 4 traffic lanes, 6% silt fraction, 5900 lb/mile surface dirt loading, and vehicle weights of 43 tons (road watering, and liner hauling), 94 tons (soil/aggregate hauling), and 8 tons (utility truck use) gross loaded weight (for 50% of travel) and 18 tons (road watering, and liner hauling), 44 tons (soil/aggregate hauling), and 8 tons (utility truck use) gross empty weight (for 50% of travel). The control efficiency is computed from EPA-450/3-88-008 "Control of Open Fugitive Dust Sources" with 0.80 mm/hr evaporation rate, 80 vehicle/hr traffic flow, 60 minute application interval, 3.00 gal/yd2 application rate for road watering, or sufficient watering to raise surface moisture content from 1% to 5%, or (from EPA-600/2-87-102 "Evaluation of the Effectiveness of Chemical Dust Suppressants on Unpaved Roads) monthly application of 0.30 gallons/yd2 of a 5:1 solution of water and Soil Cement. The PM_{10} conversion factor is from AP-42, 11.2.6-3 (Industrial Paved Roads).

2. Soil/Aggregate Excavation, Soil/Aggregate Spreading, Liner Excavation, and Bench Clearing: The emission factors are computed from AP-42, 8.24-5 (Western Surface Coal Mines, bulldozing overburden) with 1.0% (soil/aggregate excavation and spreading), 20% (liner excavation), and 2% (bench clearing) silt contents (estimated from discussions with facility personnel) and 1% (soil/aggregate excavation and spreading , and bench clearing) and 4% (liner excavation) moisture contents (estimated). The control factors are estimated from field data collected during the excavation of tailings at a former asbestos mine near Copperopolis, California. The PM10 conversion factor is computed from AP-42, 8.24-5 (Western Surface Coal Mines, bulldozing overburden).

3. Soil/Aggregate Processing: The emission factor is computed as the sum of emission factors for the stationary equipment included in the soil/aggregate processing operation: 0.12 pounds/ton - dump hopper (from AP-42, 8.24-3, Metallic Minerals, dry transfer), 0.01 pounds/ton - belt transfer at base of dump hopper (from AP-42, 11.2.3-3, Aggregate Handling and Storage Piles, with 7.5 mph average wind and 1% moisture content), 0.02 pounds/ton - cone crusher (from AP-42, 8.19.2-4, Crushed Stone primary crushing at 1.5% moisture content), and 0.12 pounds/ton - pile stacker (from AP-42, 8.24-3, Metallic Minerals dry transfer). The average wind speed is taken from ARB's "California Surface Wind Climatology" for Desert Center and the moisture contents are estimated. The control efficiency is computed as a composite weighted by emissions from each of the stationary sources: 80% - dump hopper (estimated from vendor literature and inspection of hoppers equipped with hollow cone spray nozzles), 99% - belt transfer and cone crusher (estimated from vendor literature and MD-20 "Control of Particulate Emissions" for pulse-jet baghouses), 95% - pile stacker (estimated from vendor literature and inspection of stackers with drop height controllers, midbelt deluge sprays, and head pulley solid cone nozzles). The PM10 conversion factor is an emission-weighted average covering each item of stationary equipment: 50% - dump hopper (from ARB "Information for Applying the State Ambient Air Quality Standards for PM10 to the Permitting of New and Modified Stationary Sources"), 100% belt transfer and cone crusher (all emissions from baghouse assumed to be PM10), 60% - pile stacker (from AP-42, 8.23-4, Metallic Minerals, transfer of material with 4.0% moisture content).

4. Truck Loading, Soil/Aggregate Dumping: The emission factors are computed from AP-42, 11.2.3-3 (Aggregate Handling and Storage Piles), with 7.5 mph average wind speed (ARB, Desert Center) and 1% moisture content (estimated). The PM10 conversion factor is from the ARB PM10 permitting manual.

5. Road Grading, Backhoe Use, and Miscellaneous Grading: The emission factors are computed from AP-42, 8.24-5 (Western Surface Coal Mines, grading) with vehicle speeds of 2 mph (estimated for road and miscellaneous grading) and 1 mph (estimated for backhoe use). The control factors are estimated from EPA-450/3-88-008 with 0.80 water evaporation rate, 4 vehicle passes per hour, 8 hour water application interval, and 0.15 gallon/yd2 water application rate for road and miscellaneous grading, and are estimated from inspection of pipeline construction projects from backhoe use. The PM10 conversion factor is from AP-42, 8.24-5 (Western Surface Coal Mines, grading).

Table 1-5
Total Daily Emissions
(lbs/day)

EQUIPMENT	NOx	CO	PM_{10}	VOC	SO_2
Construction Equipment (excluding equipment directly associated with landfill area)	1133.6	484.9	73.1	74.6	35.2
Construction Equipment (equipment directly associated with landfill area)	353.9	157.0	21.7	22.8	11.4
Asphalt and Concrete Batch Plant Generators	0.0	0.0	0.0	0.0	0.0
Asphalt Plant Heaters	57.6	60.8	5.1	44.8	23.4
Fugitive Dust (excluding equipment directly associated with landfill area)	0.0	0.0	1370.9	0.0	0.0
Fugitive Dust (equipment directly associated with landfill area)	0.0	0.0	273.4	0.0	0.0
Total Emissions	1545.1	702.7	1744.2	142.2	70.0

ATTACHMENT 7

ATMOSPHERIC DATA COLLECTED ON SITE

Table 7-1

Summary Of Highest Ambient Background Pollutant Concentrations Measured At Eagle Mountain (April 1990 - March 1991)

Pollutant	Averaging Time	Concentration ($\mu g/m^3$)
Ozone	1 Hour	255.0 (119 ppb)
Carbon Monoxide	1 Hour	10228
	8 Hour	4189
Nitrogen Dioxide	1 Hour	84.2
	Annual Average	4.8
Sulfur Dioxide	1 Hour	*
	3 Hour	*
	24 Hour	*
	Annual Average	*
Suspended Particulate Matter (PM_{10})	24 Hour Arithmetic Mean	210.4
	Annual Arithmetic Mean	29.8
	Annual Geometric Mean	21.7

* SO_2 not measured at Eagle Mountain

WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)

MONTH= 1

WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR	2-3	4-6	7-9	10-12	13-16	17-20	20+	TOTAL
N	0.7	0.6	0.0	0.0	0.4	0.1	0.0	1.9
NNE	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.6
NE	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.4
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
ESE	1.6	0.6	0.0	0.0	0.0	0.0	0.0	2.2
SE	3.4	1.3	0.0	0.1	0.0	0.0	0.0	4.9
SSE	2.1	1.3	0.1	0.0	0.0	0.0	0.0	3.6
S	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.6
SSW	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.9
SW	1.5	1.0	0.0	0.1	0.3	0.0	0.0	3.0
WSW	3.0	4.2	1.3	0.3	0.0	0.0	0.0	8.8
W	1.3	7.3	4.9	2.1	0.3	0.1	0.0	16.1
WNW	1.9	4.5	2.4	2.5	1.6	0.0	0.0	12.9
NW	2.7	0.9	1.3	1.5	1.2	0.0	0.0	7.6
NNW	1.3	0.1	1.9	1.6	1.6	0.4	0.0	7.1
TOTAL	21.0	23.4	12.1	8.3	5.5	0.7	0.0	71.0

CALM(< 2 KNOTS): PERCENT = 29.0
TOTAL # OF OBSERVATIONS = 672

MPV 2/26/92

WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)

MONTH= 2

WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR	2-3	4-6	7-9	10-12	13-16	17-20	20+	TOTAL
N	0.1	2.5	0.7	0.1	0.0	0.0	0.0	3.6
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
ENE	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.6
E	0.1	0.9	0.1	0.0	0.0	0.0	0.0	1.2
ESE	1.2	2.5	0.3	0.0	0.0	0.0	0.0	4.0
SE	3.4	3.3	0.9	0.0	0.0	0.0	0.0	7.6
SSE	1.8	1.2	0.6	0.1	0.0	0.0	0.0	3.7
S	0.3	0.7	1.6	0.3	0.3	0.0	0.0	3.3
SSW	0.4	0.4	0.7	0.0	0.1	0.0	0.0	1.8
SW	0.4	0.4	0.3	0.1	0.0	0.0	0.0	1.3
WSW	1.0	2.5	0.6	0.9	0.3	0.0	0.0	5.4
W	2.2	8.2	5.8	3.3	1.5	0.3	0.0	21.3
WNW	1.8	3.1	1.3	0.7	0.4	0.3	0.1	7.9
NW	6.7	3.3	0.6	0.4	0.0	0.0	0.0	11.0
NNW	0.9	2.8	2.5	2.4	0.4	0.0	0.0	9.1
TOTAL	21.0	32.4	16.2	8.5	3.1	0.6	0.1	82.0

CALM(< 2 KNOTS): PERCENT = 18.0
TOTAL # OF OBSERVATIONS = 672

MPV 2/26/92

WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
MONTH= 3
WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR	2-3	4-6	7-9	10-12	13-16	17-20	20+	TOTAL
N	0.8	1.1	0.7	0.4	0.3	0.0	0.0	3.2
NNE	0.8	0.4	0.1	0.0	0.0	0.0	0.0	1.3
NE	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.7
ENE	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.8
E	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.8
ESE	0.9	2.7	0.8	0.0	0.0	0.0	0.0	4.4
SE	1.5	3.9	1.9	0.3	0.0	0.0	0.0	7.5
SSE	0.9	1.9	1.3	0.5	0.0	0.0	0.0	4.7
S	1.1	1.5	1.3	1.1	0.9	0.0	0.0	5.9
SSW	0.8	0.9	1.5	0.8	0.9	0.0	0.0	5.0
SW	0.5	0.9	0.4	0.3	0.3	0.0	0.0	2.4
WSW	0.1	1.5	0.4	0.7	0.0	0.0	0.0	2.7
W	0.7	3.6	2.7	0.4	0.1	0.0	0.0	7.5
WNW	1.5	3.2	0.8	1.3	1.2	0.1	0.0	8.2
NW	4.4	3.0	1.5	0.1	0.3	0.0	0.0	9.3
NNW	1.9	1.7	1.2	0.3	0.4	0.0	0.0	5.5
TOTAL	17.1	27.6	14.7	6.2	4.4	0.1	0.0	70.0

CALM(< 2 KNOTS): PERCENT = 30.0
TOTAL # OF OBSERVATIONS = 744

MPV 2/26/92

WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
MONTH= 4
WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR	2-3	4-6	7-9	10-12	13-16	17-20	20+	TOTAL
N	0.3	1.4	0.7	0.3	0.3	0.0	0.0	2.9
NNE	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.8
NE	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.4
ENE	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3
E	0.4	1.0	0.0	0.0	0.0	0.0	0.0	1.4
ESE	0.7	2.2	0.0	0.0	0.0	0.0	0.0	2.9
SE	1.4	2.9	1.1	0.0	0.0	0.0	0.0	5.4
SSE	0.4	1.4	0.7	0.6	0.1	0.0	0.0	3.2
S	0.4	0.7	0.8	1.7	0.3	0.0	0.0	3.9
SSW	0.3	1.5	1.9	1.5	0.3	0.0	0.0	5.6
SW	0.3	1.1	1.3	0.3	0.0	0.0	0.0	2.9
WSW	0.8	1.8	0.6	0.3	0.1	0.0	0.0	3.6
W	0.7	6.1	5.0	3.5	7.5	1.3	0.0	24.0
WNW	1.0	3.9	2.5	3.5	2.9	0.4	0.0	14.2
NW	2.2	2.8	3.1	1.4	0.3	0.0	0.0	9.7
NNW	1.9	3.8	2.4	1.8	0.6	0.0	0.0	10.4
TOTAL	11.7	31.1	20.1	14.7	12.4	1.7	0.0	91.7

CALM(< 2 KNOTS): PERCENT = 8.3
TOTAL # OF OBSERVATIONS = 720

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                                                                MPV 2/26/92
             WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
                 MONTH=  5
                         WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR   2-3   4-6   7-9  10-12  13-16  17-20  20+     TOTAL

 N       0.2   2.1   2.1   1.4    1.2    0.0   0.0      6.9
 NNE     0.5   1.9   1.6   0.9    0.0    0.0   0.0      4.9
 NE      0.9   1.2   0.7   0.2    0.0    0.0   0.0      3.0
 ENE     0.2   0.5   0.7   0.2    0.0    0.0   0.0      1.6
 E       0.5   2.3   0.5   0.2    0.0    0.0   0.0      3.5
 ESE     1.9   3.0   0.0   0.2    0.0    0.0   0.0      5.1
 SE      0.7   1.6   0.5   0.2    0.0    0.0   0.0      3.0
 SSE     0.0   2.3   0.7   0.9    0.9    0.0   0.0      4.9
 S       0.0   1.4   1.4   0.5    0.7    0.0   0.0      3.9
 SSW     0.2   1.9   0.9   2.1    1.6    0.2   0.0      6.9
 SW      0.0   1.9   0.5   0.7    0.0    0.0   0.0      3.0
 WSW     0.0   1.2   1.9   0.2    0.0    0.0   0.0      3.2
 W       0.0   2.8   2.3   3.2    1.9    0.2   0.0     10.4
 WNW     0.7   6.7   4.2   2.1    0.7    0.9   0.0     15.3
 NW      1.4   1.4   3.0   1.6    2.3    0.0   0.0      9.7
 NNW     1.2   2.5   0.9   1.4    1.4    0.2   0.0      7.6

TOTAL       8.3  34.5  21.8  16.2  10.6    1.6    0.0     93.1

CALM( < 2 KNOTS): PERCENT =  6.9
TOTAL # OF OBSERVATIONS =   432
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                                                                MPV 2/26/92
             WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
                 MONTH=  6
                         WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR   2-3   4-6   7-9  10-12  13-16  17-20  20+     TOTAL

 N       0.4   2.2   0.7   0.7    1.4    0.8   0.4      6.7
 NNE     0.0   1.0   0.7   0.7    0.7    0.4   0.0      3.5
 NE      0.0   0.4   0.3   0.3    0.4    0.4   0.0      1.8
 ENE     0.1   0.1   0.0   0.3    0.0    0.0   0.0      0.6
 E       0.0   0.0   0.0   0.0    0.0    0.0   0.0      0.0
 ESE     0.0   0.0   0.0   0.0    0.0    0.0   0.0      0.0
 SE      0.0   0.1   0.4   0.3    0.4    0.0   0.0      1.3
 SSE     0.3   0.3   1.0   1.7    1.4    0.1   0.0      4.7
 S       0.0   1.0   2.5   2.2    2.2    0.8   0.0      8.8
 SSW     0.1   0.6   1.5   1.5    1.1    1.7   1.3      7.8
 SW      0.3   0.6   1.1   0.7    1.1    1.8   4.0      9.6
 WSW     0.0   1.4   1.4   1.3    1.0    2.1   2.5      9.6
 W       0.1   0.7   0.8   1.3    1.0    1.3   0.4      5.6
 WNW     0.3   1.3   1.0   0.6    1.3    0.7   0.7      5.7
 NW      0.0   1.3   1.8   1.9    4.0    3.9   6.5     19.4
 NNW     0.6   1.3   2.5   1.7    3.3    2.1   3.8     15.1

TOTAL       2.2  12.1  15.7  15.0  19.3   16.1   19.6    100.0

CALM( < 2 KNOTS): PERCENT =  0.0
TOTAL # OF OBSERVATIONS =   720
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                                                                MPV 2/26/92
           WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
                MONTH=  7
                          WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR   2-3   4-6   7-9  10-12  13-16  17-20  20+    TOTAL

 N       0.5   1.5   0.7   0.0    0.3    0.0   0.0      3.0
 NNE     0.1   1.5   0.1   0.0    0.1    0.0   0.0      1.9
 NE      0.1   0.3   0.0   0.0    0.3    0.0   0.0      0.7
 ENE     0.0   0.1   0.1   0.0    0.1    0.0   0.0      0.4
 E       0.0   0.0   0.1   0.1    0.1    0.0   0.1      0.5
 ESE     0.0   0.1   0.0   0.0    0.0    0.0   0.0      0.1
 SE      0.0   0.9   0.3   0.4    0.0    0.1   0.1      1.9
 SSE     0.1   1.5   0.9   0.7    1.2    0.7   0.4      5.5
 S       0.0   2.0   2.3   3.8    4.4    1.7   0.7     14.9
 SSW     0.3   0.9   1.1   2.4    0.5    2.6   1.3      9.1
 SW      0.4   0.9   0.9   1.6    3.5    3.2   5.8     16.4
 WSW     0.7   1.7   0.5   0.8    2.2    2.2   3.8     11.8
 W       0.3   1.2   1.2   1.5    1.3    0.9   0.5      7.0
 WNW     0.4   1.7   1.6   1.3    1.9    1.3   0.3      8.6
 NW      0.3   1.5   1.2   1.6    3.0    1.2   0.9      9.7
 NNW     0.1   0.9   1.1   2.7    1.9    1.3   0.4      8.5

TOTAL      3.4  16.9  12.2  16.9  20.8  15.3  14.4    100.0

CALM( < 2 KNOTS): PERCENT =  0.0
TOTAL # OF OBSERVATIONS =   744
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                                                                MPV 2/26/92
           WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
                MONTH=  8
                          WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR   2-3   4-6   7-9  10-12  13-16  17-20  20+    TOTAL

 N       1.4   1.7   0.9   0.5    0.2    0.0   0.0      4.6
 NNE     1.3   3.5   1.9   0.5    0.2    0.0   0.0      7.4
 NE      1.3   3.0   3.5   0.6    0.5    0.0   0.0      8.9
 ENE     0.7   1.7   0.5   0.2    0.0    0.0   0.0      3.0
 E       1.0   2.0   0.6   0.4    0.3    0.0   0.0      4.3
 ESE     1.3   2.7   1.0   0.9    1.4    0.2   0.2      7.9
 SE      1.0   1.7   1.3   1.1    1.6    0.7   0.2      7.6
 SSE     0.4   0.9   1.3   1.5    0.9    0.0   0.1      5.1
 S       0.4   2.3   2.0   2.1    0.6    0.5   0.1      8.0
 SSW     0.7   2.0   1.0   0.2    0.7    0.2   0.0      5.0
 SW      1.0   1.7   0.8   0.4    0.2    0.0   0.0      4.2
 WSW     0.6   1.3   1.3   0.2    0.2    0.1   0.1      3.7
 W       0.9   2.0   0.9   0.2    0.2    0.0   0.0      4.1
 WNW     0.9   0.8   0.8   0.5    0.4    0.0   0.0      3.4
 NW      1.2   1.7   0.5   0.4    0.1    0.0   0.0      3.9
 NNW     0.7   2.5   0.5   0.4    0.2    0.2   0.0      4.4

TOTAL     14.9  31.5  18.6  10.1    7.7   1.9   0.6      85.4

CALM( < 2 KNOTS): PERCENT = 14.6
TOTAL # OF OBSERVATIONS =  1272
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MPV 2/26/92

WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
MONTH= 9
WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR	2-3	4-6	7-9	10-12	13-16	17-20	20+	TOTAL
N	0.7	1.3	0.0	0.0	0.0	0.0	0.0	1.9
NNE	0.4	1.4	0.0	0.1	0.0	0.0	0.0	1.9
NE	1.0	2.1	0.7	0.1	0.0	0.0	0.0	3.9
ENE	0.3	0.8	0.3	0.0	0.0	0.0	0.0	1.4
E	1.3	3.1	0.6	0.0	0.0	0.0	0.0	4.9
ESE	2.2	6.3	2.2	0.7	0.0	0.0	0.0	11.4
SE	2.5	6.1	2.2	0.4	0.0	0.0	0.0	11.3
SSE	0.8	1.3	1.3	0.0	0.0	0.0	0.0	3.3
S	0.8	1.9	1.7	1.1	0.0	0.0	0.0	5.6
SSW	0.8	1.7	0.7	0.1	0.0	0.0	0.0	3.3
SW	1.0	1.3	0.3	0.3	0.0	0.0	0.0	2.8
WSW	1.4	2.9	1.5	1.1	0.3	0.0	0.0	7.2
W	1.1	5.6	4.2	2.6	0.4	0.0	0.0	13.9
WNW	1.8	2.2	0.1	0.0	0.0	0.0	0.0	4.2
NW	2.1	1.3	0.3	0.3	1.0	0.0	0.0	4.9
NNW	1.1	0.6	0.6	0.1	0.0	0.0	0.0	2.4
TOTAL	19.3	39.6	16.5	7.1	1.7	0.0	0.0	84.2

CALM(< 2 KNOTS): PERCENT = 15.8
TOTAL # OF OBSERVATIONS = 720

MPV 2/26/92

WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
MONTH= 10
WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR	2-3	4-6	7-9	10-12	13-16	17-20	20+	TOTAL
N	0.8	0.4	0.0	0.1	0.1	0.0	0.0	1.5
NNE	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.4
NE	0.3	0.5	0.0	0.1	0.0	0.0	0.0	0.9
ENE	0.3	0.8	0.0	0.0	0.0	0.0	0.0	1.1
E	1.3	0.5	0.0	0.0	0.0	0.0	0.0	1.9
ESE	3.6	4.0	0.5	0.0	0.0	0.0	0.0	8.2
SE	4.7	7.9	0.5	0.1	0.0	0.0	0.0	13.3
SSE	2.3	1.1	0.3	0.1	0.1	0.0	0.0	3.9
S	0.4	0.5	0.9	0.7	0.1	0.0	0.1	2.8
SSW	0.3	0.8	0.4	0.1	0.0	0.0	0.0	1.6
SW	1.2	1.5	0.7	0.0	0.0	0.0	0.0	3.4
WSW	0.5	1.5	0.5	0.1	0.0	0.0	0.0	2.7
W	1.3	4.0	3.9	0.9	0.0	0.0	0.0	10.2
WNW	1.3	2.3	1.7	1.9	0.0	0.0	0.0	7.3
NW	7.1	0.9	1.9	0.7	0.0	0.0	0.0	10.6
NNW	2.7	1.3	1.9	1.5	0.5	0.0	0.0	7.9
TOTAL	28.5	28.4	13.3	6.5	0.9	0.0	0.1	77.7

CALM(< 2 KNOTS): PERCENT = 22.3
TOTAL # OF OBSERVATIONS = 744

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                                                              MPV 2/26/92
            WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
                MONTH= 11
                        WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR   2-3   4-6   7-9  10-12  13-16  17-20  20+    TOTAL

 N       0.3   1.4   0.1   0.0   0.0   0.0   0.0      1.8
 NNE     0.0   0.3   0.0   0.0   0.0   0.0   0.0      0.3
 NE      0.1   0.6   0.0   0.0   0.0   0.0   0.0      0.7
 ENE     0.3   0.1   0.0   0.0   0.0   0.0   0.0      0.4
 E       0.1   0.4   0.0   0.0   0.0   0.0   0.0      0.6
 ESE     1.1   1.0   0.1   0.0   0.0   0.0   0.0      2.2
 SE      2.8   2.2   0.1   0.0   0.0   0.0   0.0      5.1
 SSE     1.3   1.3   0.6   0.0   0.0   0.0   0.0      3.1
 S       0.4   0.0   0.3   0.1   0.0   0.0   0.0      0.8
 SSW     0.3   0.3   0.0   0.0   0.0   0.0   0.0      0.6
 SW      0.6   0.6   0.0   0.0   0.0   0.0   0.0      1.1
 WSW     0.3   0.7   0.1   0.6   0.1   0.0   0.0      1.8
 W       1.0   4.6   7.9   6.4   3.1   0.3   0.0     23.2
 WNW     1.7   5.1   3.6   3.8   3.5   1.1   0.0     18.8
 NW      4.3   3.6   1.9   1.3   1.3   0.3   0.0     12.6
 NNW     1.0   3.9   2.2   1.4   0.7   0.3   0.4      9.9

TOTAL     15.4  26.0  17.1  13.5   8.6   1.9   0.4     82.9

CALM( < 2 KNOTS): PERCENT = 17.1
TOTAL # OF OBSERVATIONS =    720
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                                                              MPV 2/26/92
            WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
                MONTH= 12
                        WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR   2-3   4-6   7-9  10-12  13-16  17-20  20+    TOTAL

 N       0.1   0.4   0.0   0.0   0.0   0.0   0.0      0.5
 NNE     0.3   0.3   0.0   0.0   0.0   0.0   0.0      0.5
 NE      0.4   0.1   0.1   0.0   0.0   0.0   0.0      0.7
 ENE     0.1   0.1   0.1   0.1   0.0   0.0   0.0      0.5
 E       0.1   0.0   0.0   0.0   0.0   0.0   0.0      0.1
 ESE     1.3   0.9   0.0   0.0   0.0   0.0   0.0      2.3
 SE      2.0   1.6   1.1   0.1   0.0   0.0   0.0      4.8
 SSE     0.8   0.1   0.4   0.1   0.0   0.0   0.0      1.5
 S       0.3   1.2   0.4   0.1   0.0   0.0   0.0      2.0
 SSW     0.3   0.7   0.3   0.0   0.0   0.0   0.0      1.2
 SW      0.7   0.7   0.3   0.1   0.0   0.3   0.0      2.0
 WSW     0.3   3.8   7.0   2.3   0.7   0.0   0.0     14.0
 W       1.5   9.5  10.6   6.5   2.3   0.0   0.0     30.4
 WNW     1.6   4.3   3.4   1.3   2.3   0.1   0.0     13.0
 NW      2.6   2.2   1.2   0.9   0.8   0.1   0.0      7.8
 NNW     2.3   1.1   1.6   0.3   0.3   0.0   0.0      5.5

TOTAL     14.7  27.0  26.5  12.0   6.3   0.5   0.0     87.0

CALM( < 2 KNOTS): PERCENT = 13.0
TOTAL # OF OBSERVATIONS =    744
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MPV 2/26/92

WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
QUARTER = 1
WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR	2-3	4-6	7-9	10-12	13-16	17-20	20+	TOTAL
N	0.6	1.4	0.5	0.2	0.2	0.0	0.0	2.9
NNE	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.7
NE	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.5
ENE	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.5
E	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.8
ESE	1.2	2.0	0.4	0.0	0.0	0.0	0.0	3.6
SE	2.7	2.9	1.0	0.1	0.0	0.0	0.0	6.7
SSE	1.6	1.5	0.7	0.2	0.0	0.0	0.0	4.0
S	0.6	0.8	1.0	0.5	0.4	0.0	0.0	3.4
SSW	0.6	0.6	0.8	0.3	0.4	0.0	0.0	2.6
SW	0.8	0.8	0.2	0.2	0.2	0.0	0.0	2.3
WSW	1.3	2.7	0.8	0.6	0.1	0.0	0.0	5.5
W	1.4	6.3	4.4	1.9	0.6	0.1	0.0	14.7
WNW	1.7	3.6	1.5	1.5	1.1	0.1	0.0	9.6
NW	4.6	2.4	1.1	0.7	0.5	0.0	0.0	9.3
NNW	1.4	1.6	1.9	1.4	0.8	0.1	0.0	7.2
TOTAL	19.6	27.8	14.3	7.6	4.4	0.5	0.0	74.2

CALM(< 2 KNOTS): PERCENT = 25.8
TOTAL # OF OBSERVATIONS = 2088

MPV 2/26/92

WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
QUARTER = 2
WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR	2-3	4-6	7-9	10-12	13-16	17-20	20+	TOTAL
N	0.3	1.9	1.0	0.7	0.9	0.3	0.2	5.3
NNE	0.3	0.9	0.7	0.5	0.3	0.2	0.0	2.8
NE	0.3	0.5	0.3	0.2	0.2	0.2	0.0	1.5
ENE	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.7
E	0.3	0.9	0.1	0.1	0.0	0.0	0.0	1.3
ESE	0.7	1.5	0.0	0.1	0.0	0.0	0.0	2.3
SE	0.7	1.5	0.7	0.2	0.2	0.0	0.0	3.3
SSE	0.3	1.2	0.8	1.1	0.8	0.1	0.0	4.2
S	0.2	1.0	1.6	1.6	1.1	0.3	0.0	5.8
SSW	0.2	1.2	1.5	1.7	0.9	0.7	0.5	6.7
SW	0.2	1.1	1.0	0.5	0.4	0.7	1.5	5.5
WSW	0.3	1.5	1.2	0.6	0.4	0.8	1.0	5.8
W	0.3	3.3	2.8	2.6	3.7	1.0	0.2	13.8
WNW	0.6	3.5	2.3	2.0	1.8	0.6	0.3	11.2
NW	1.2	1.9	2.6	1.7	2.2	1.5	2.5	13.5
NNW	1.2	2.5	2.1	1.7	1.8	0.9	1.4	11.6
TOTAL	7.3	24.6	18.8	15.2	14.6	7.2	7.5	95.2

CALM(< 2 KNOTS): PERCENT = 4.8
TOTAL # OF OBSERVATIONS = 1872

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                                                                MPV 2/26/92
             WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
                  QUARTER =  3
                            WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR   2-3   4-6   7-9  10-12  13-16  17-20  20+     TOTAL

 N       1.0   1.5   0.6   0.2   0.1    0.0    0.0      3.5
 NNE     0.8   2.4   0.9   0.3   0.1    0.0    0.0      4.5
 NE      0.9   2.0   1.8   0.3   0.3    0.0    0.0      5.3
 ENE     0.4   1.0   0.3   0.1   0.0    0.0    0.0      1.9
 E       0.8   1.8   0.4   0.2   0.2    0.0    0.0      3.4
 ESE     1.2   2.9   1.1   0.6   0.7    0.1    0.1      6.7
 SE      1.1   2.7   1.3   0.7   0.7    0.4    0.1      7.0
 SSE     0.4   1.2   1.2   0.9   0.8    0.2    0.1      4.8
 S       0.4   2.1   2.0   2.3   1.5    0.7    0.2      9.2
 SSW     0.6   1.6   1.0   0.8   0.5    0.8    0.4      5.7
 SW      0.8   1.4   0.7   0.7   1.1    0.9    1.6      7.1
 WSW     0.8   1.8   1.1   0.6   0.8    0.6    1.1      6.8
 W       0.8   2.7   1.8   1.2   0.5    0.3    0.1      7.5
 WNW     1.0   1.4   0.8   0.6   0.7    0.4    0.1      5.0
 NW      1.2   1.5   0.6   0.7   1.1    0.3    0.3      5.7
 NNW     0.7   1.6   0.7   1.0   0.6    0.4    0.1      5.0

TOTAL     12.9  29.7  16.3  11.1   9.7   5.0    4.2      89.0

CALM( < 2 KNOTS): PERCENT = 11.0
TOTAL # OF OBSERVATIONS =  2736
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                                                                MPV 2/26/92
             WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)
                  QUARTER =  4
                            WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR   2-3   4-6   7-9  10-12  13-16  17-20  20+     TOTAL

 N       0.4   0.7   0.0   0.0   0.0    0.0    0.0      1.3
 NNE     0.2   0.2   0.0   0.0   0.0    0.0    0.0      0.4
 NE      0.3   0.4   0.0   0.0   0.0    0.0    0.0      0.8
 ENE     0.2   0.4   0.0   0.0   0.0    0.0    0.0      0.7
 E       0.5   0.3   0.0   0.0   0.0    0.0    0.0      0.9
 ESE     2.0   2.0   0.2   0.0   0.0    0.0    0.0      4.3
 SE      3.2   3.9   0.6   0.1   0.0    0.0    0.0      7.8
 SSE     1.4   0.8   0.4   0.1   0.0    0.0    0.0      2.8
 S       0.4   0.6   0.5   0.3   0.0    0.0    0.0      1.9
 SSW     0.3   0.6   0.2   0.0   0.0    0.0    0.0      1.1
 SW      0.8   0.9   0.3   0.0   0.0    0.1    0.0      2.2
 WSW     0.4   2.0   2.6   1.0   0.3    0.0    0.0      6.2
 W       1.3   6.1   7.5   4.6   1.8    0.1    0.0     21.2
 WNW     1.5   3.9   2.9   2.3   1.9    0.4    0.0     13.0
 NW      4.7   2.2   1.7   1.0   0.7    0.1    0.0     10.3
 NNW     2.0   2.1   1.9   1.0   0.5    0.1    0.1      7.7

TOTAL     19.6  27.1  19.0  10.6   5.3   0.8    0.2      82.5

CALM( < 2 KNOTS): PERCENT = 17.5
TOTAL # OF OBSERVATIONS =  2208
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MPV 2/26/92

WIND FREQUENCY DISTRIBUTION FOR EAGLE-MOUNTAIN (1990-1991)

ANNUAL REPORT

WIND SPEED AT 10 M HEIGHT (KNOTS)

SECTOR	2-3	4-6	7-9	10-12	13-16	17-20	20+	TOTAL
N	0.6	1.4	0.5	0.3	0.3	0.1	0.0	3.2
NNE	0.4	1.0	0.4	0.2	0.1	0.0	0.0	2.2
NE	0.5	0.9	0.6	0.1	0.1	0.0	0.0	2.3
ENE	0.3	0.5	0.1	0.1	0.0	0.0	0.0	1.0
E	0.5	0.9	0.2	0.1	0.1	0.0	0.0	1.7
ESE	1.3	2.2	0.5	0.2	0.2	0.0	0.0	4.4
SE	1.9	2.8	0.9	0.3	0.3	0.1	0.0	6.3
SSE	0.9	1.2	0.8	0.6	0.4	0.1	0.0	4.0
S	0.4	1.2	1.3	1.2	0.8	0.3	0.1	5.3
SSW	0.4	1.1	0.9	0.7	0.4	0.4	0.2	4.1
SW	0.7	1.1	0.6	0.4	0.5	0.4	0.8	4.4
WSW	0.7	2.0	1.4	0.7	0.4	0.4	0.5	6.2
W	0.9	4.5	4.0	2.5	1.5	0.3	0.1	13.9
WNW	1.2	3.0	1.8	1.5	1.3	0.4	0.1	9.4
NW	2.8	2.0	1.4	1.0	1.1	0.4	0.6	9.3
NNW	1.3	1.9	1.5	1.2	0.9	0.4	0.4	7.6
TOTAL	14.9	27.5	17.0	11.0	8.4	3.4	2.9	85.2

CALM(< 2 KNOTS): PERCENT = 14.8

TOTAL # OF OBSERVATIONS = 8904

ATTACHMENT 8

AIR DISPERSION MODELING FOR PROJECT

AIR DISPERSION MODELING FOR THE EAGLE MOUNTAIN LANDFILL PROJECT

April 1992

Prepared by:

Sierra Research, Inc.
1521 "I" Street
Sacramento, CA 95814
(916) 444-6666

AIR DISPERSION MODELING FOR THE EAGLE MOUNTAIN LANDFILL PROJECT

This attachment addresses comments on the Draft Environmental Impact Statement/Environmental Impact Report (EIS/EIR) related to air dispersion modeling. When the Draft EIS/EIR was prepared, adequate meteorological data were not available to conduct complete air dispersion modeling. In lieu of actual meteorological data from the project site or nearby stations, screening meteorological data were used in the Draft EIS/EIR. Since that time, more than one year of on-site meteorological data have been collected, which can be used for dispersion modeling. However, as discussed below, the data had to be supplemented to account for missing data.

In addition, some input parameters and modeling approaches were modified in the refined dispersion analysis. These are also discussed in this section.

While the output files from the modeling runs are included in this attachment, the impact analyses are indicated in other sections of the Final EIS/EIR. Criteria pollutant impact analyses are shown in the modified tables in Attachment 5, Appendix M of the Final EIS/EIR. The revised health risk assessment is discussed in Attachment 9 of Appendix M.

Eagle Mountain: Site Description and Climatology

The Eagle Mountain landfill will be located at the site of the inactive Kaiser Eagle Mountain open pit iron mine, on the eastern slope of the Eagle Mountains, about 1.5 miles south of the Joshua Tree National Monument boundary in Riverside County, CA. The surface excavation of iron ore left three large open pits, extensive tailing deposits, and well-developed rail and road access systems on the site's 8,300 acres. One of the open pits will gradually be filled with refuse, and the terrain in the vicinity of the pit gradually raised, over the 115-year lifetime of the project. The small community of Eagle Mountain is located just outside the project boundary, towards the south. Farther south and east, about 9 and 11 miles respectively, are the towns of Lake Tamarisk (population 350) and Desert Center (population 35), which straddles Interstate 10. Beyond these small communities, the entire area is either sparsely inhabited or devoid of human habitation.

The terrain in the vicinity of the site is quite variable. Broad alluvial plains are bounded by ridges of uplifted Precambrian sediments and intrusive granitic outcroppings. To the west of the project site, the rugged Eagle Mountains dominate the landscape. The valley of Eagle

Creek, which cleaves the Eagle Mountains' eastern flank, establishes the approximate southern boundary of the Eagle Mountain landfill. A major ridge line isolates the project from Joshua Tree National Monument to the north and smaller ridges separate the project from the town of Desert Center to the southeast. The valley of Eagle Creek opens out to the east and southeast into the Chuckwalla Valley. The Coxcomb Mountains lie 8 miles east across the valley. The Chuckwalla Valley slopes gently southeast away from the site. Thus, elements of simple and complex terrain can be found in the immediate vicinity of the project.

The site is located among some of the hottest and driest areas in the state of California. The seasons are generally marked by differences in temperature rather than substantial differences in rainfall. Seasonal temperature differences are large, characteristic of a continental climate. Average monthly temperatures at Eagle mountain range from about 54°F in January to 94°F in July. The mean monthly high temperature ranges from over 100°F in July to about 60°F in January, while the mean monthly low temperature ranges from about 40°F in January to about 80°F in July. Average annual precipitation totals 3.26 inches.

Westerly and northwesterly winds predominate at the Eagle Mountain site. Southeasterly flows do occur during the month of August, however, when the influence of "monsoonal" flow is felt in the deserts of California. The southwestern monsoon brings rains to the plateaus and deserts of Arizona and New Mexico, to the Rocky Mountains, and even as far north as Canada, during the summer months. The southwestern monsoon occasionally brings rain to the California deserts as well, particularly when subtropical mesoscale "easterly waves" are active, and especially in the month of August.

Meteorological Monitoring in the Vicinity of Eagle Mountain

National Weather Service surface meteorological stations are absent in the immediate vicinity of the Eagle Mountain project. Surface weather data for seventeen hours a day are available at Palm Springs Municipal Airport. Surface data are also available at the U.S. Marine Corps air base at Twenty-Nine Palms, but the data are often not collected in a regular fashion. On some days, data are collected hourly for 24 hours a day, particularly during special exercises, but on other days, data are not collected at all.

Mine Reclamation Corporation (MRC) has been conducting on-site preconstruction meteorological and ambient air quality monitoring to support the modeling impact analysis required for the South Coast Air Quality Management District (SCAQMD) permit process. The first phase of meteorological monitoring, supervised by Engineering-Science of Pasadena, CA, commenced in April 1990 and ended April 30, 1991. Valid wind-direction data were not available until June 1, 1990, however. The second phase of meteorological monitoring began on May 1, 1991, and supervised by MRC, continues still.

Standard meteorological variables, such as wind speed, wind direction, and temperature are measured for the Eagle Mountain on-site meteorological data collection effort. In order to characterize on-site dispersion, it is generally necessary to also gather data on the standard deviation of wind direction fluctuations in either the vertical (σ_E), or horizontal (sigma theta; σ_θ) directions. Unfortunately, electronic problems prevented sigma theta data-gathering until November 1, 1990. Thus, on-site meteorological data gathered from May 1, 1990 until November 1, 1990 (and during sporadic but brief intervals since then) do not include measurements of sigma theta.

Quality Assurance

Data Systems Services Inc. of San Diego was contracted by MRC to conduct quarterly audits of the meteorological monitoring equipment used by Engineering-Science at the Eagle Mountain Project. The Ambient Monitoring Data Summaries prepared by Engineering-Science indicate that four quarterly audits of the monitoring equipment (including meteorological monitoring equipment) were conducted at acceptable intervals (May 23-24, 1990; September 26-27, 1990; December 19, 1990; and May 14, 1991).

Determination of Stability Class

In order to characterize dispersion during those intervals when sigma theta is not measured, it is necessary to have an alternative scheme to infer the degree of turbulence (and resultant Pasquill-Gifford stability class for the purpose of modeling). There are four standard methods accepted by EPA for determining stability class (listed in order of preference):

- Turner's 1964 method using site-specific data which include cloud cover, ceiling height, and surface (10 m) wind speed;

- σ_E determined from site-specific measurements, modified by wind speed;

- σ_θ from site-specific measurements modified by wind speed; or

- Modified Turner's 1964 method, using site-specific wind speed with cloud cover and ceiling height from a nearby National Weather Service (NWS) site.

The procedure used for analyzing the on-site MRC meteorological data was the third method listed above, using the site-specific sigma theta data. However, during those periods when sigma theta data were not collected (particularly from June 1, 1990 to October 30, 1990), it was necessary to use a variant of the fourth method listed above.

The Turner method determines Pasquill-Gifford stability classes from data that are routinely collected at NWS sites. The method estimates the effects of net radiation on stability from solar altitude, total cloud cover, and ceiling height. Cloud cover observations are used in conjunction with wind speed to determine stability class. According to Turner's scheme for determining stability class, 40% cloud cover is a critical point in differentiating between stability classes at night.

One difficulty has been to establish which NWS site is best suited by location and observation period to yield the cloud cover and ceiling height required to implement the modified Turner procedure. The U.S.M.C. air station at Twenty-Nine Palms is closest (45 miles) to Eagle Mountain, but as noted above, these observations have a sporadic nature, being available for 24-hour intervals at times and not at all at others. The Palm Springs airport is only slightly farther away (60 miles) than Twenty-Nine Palms, and the data are less sporadic, but they are not available for nighttime hours. Other NWS stations in the area, such as Blythe and Daggett, suffer the same nighttime data deficiency as Palm Springs. Thus, there was a need to rely, at times, on a 24-hour NWS station for cloud cover data, despite the fact the NWS station is not located in the general area of Eagle Mountain.

Norton Air Force Base (AFB), in San Bernardino (102 miles from Eagle Mountain), was chosen as the backup station for those times when appropriate data from Twenty-Nine Palms or Palm Springs were unavailable (particularly nighttime). There appear to be no other 24-hour NWS stations closer to Eagle Mountain than Norton AFB. George AFB, near Victorville, was considered as well, because its high-desert climate should be more similar than Norton AFB's climate to Eagle Mountain's low-desert climate, but it is even farther away than Norton AFB from Eagle Mountain (120 miles).

Nighttime cloud cover, particularly at an arid site like Eagle Mountain, is less likely to be influenced by local storms than it is by mesoscale or synoptic-scale weather systems. On an hour-by-hour basis, these often fast-moving systems should affect cloud cover at Eagle Mountain and Norton AFB at roughly similar times, and in roughly similar amounts. Norton AFB cloud cover observations appeared to be satisfactory for estimating cloud cover, even at a somewhat distant site such as Eagle Mountain, when no other data were available. These three sets of data (Palm Springs, Twenty-Nine Palms, and Norton AFB) contained enough resources to properly estimate stability classes and to assemble at least a one-year meteorological data base for the purpose of modeling at the Eagle Mountain site.

The general cloud cover data protocol is as follows: cloud cover and ceiling height are chosen preferentially from these stations in the following order, as available:

- Twenty-Nine Palms U.S.M.C. air station,
- Palm Springs Municipal Airport,
- Norton Air Force Base in San Bernardino.

For all stations, total sky cover, rather than total opaque sky cover, is used, as the latter is not measured at Norton AFB. Occasionally after November 1, 1990, particularly over several days in December 1990 and January 1991, site-specific sigma theta data collection was interrupted. For those time periods, the modified Turner procedure is used in order to establish stability class.

There is no standard procedure for processing on-site met data into model-ready format. The procedure that has been followed for the Eagle Mountain data has been to modify the program RAMMET, which is used to process standard NWS data into model-ready format, into a form that can process on-site data as well. The continuity checks embedded in the original RAMMET program have been disabled, permitting stability class to be determined for discontinuous periods where necessary (albeit in 24-hour blocks). Stability class determination follows the two procedures discussed earlier.

Mixing heights were determined according to the methods described in the SHORTZ manual*. These methods are not the same, however, as the procedures most commonly used to derive mixing heights (through use of the graphs and tables in Holzworth, 1972). Since SHORTZ was the model of choice, and since explicit warnings were given in the SHORTZ manual not to use mixing heights generated by the CRSTER meteorological preprocessor (which is similar to the Holzworth procedure), it seemed prudent to follow the exact methods given in the SHORTZ manual.

Observations Concerning the Met Data Base

370 days worth of hourly data, in 24-hour blocks, covering the period June 1990 - May 1991, and August 1991, are included in the data base. Significant parts of the data from June and July 1991 were inadvertently lost and could not be recovered. When data are available, data recovery is quite high (sometimes 100% for some variables during any given month). Sporadic episodes are evident after October 1990, particularly during December 1990 and January 1991, when sigma theta data are missing. A total of 38 days are affected (even if only briefly) by sigma theta data loss. Stability class determination for those periods follows the modified Turner procedure detailed earlier. Three days of data were dropped entirely from the data base (January 26-28, 1991) because of an unacceptable absence of data.

Several observations concerning the data base are worth noting. The first observation is that stability classes A, B, E, and F, determined from the on-site data by the adjusted RAMMET procedure, are somewhat less common than originally expected. The site is quite "breezy", and turbulent mixing of the lower atmosphere at the site results in frequent periods of neutral stability. The second observation is that the inclusion of two months of August data tends to bias the data base somewhat towards a southeast wind regime, typical of that found late in the summer, rather than the more typical west and northwest wind regime. Thus long-term pollutant averages calculated from this meteorological data base might be somewhat higher for receptors located in Joshua Tree National Monument, and somewhat lower for receptors located in the town of Eagle Mountain, than from a bias-free annual data base. This particular bias in the data base is probably not large, however.

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* "User's Instructions for the SHORTZ and LONGZ Computer Programs, Volume I," Bjorklund, J.R., and J.F. Bowers, EPA-903/9-82-004a, March 1982, pages 2-7 through 2-11.

Types of Emission Sources

Municipal waste will be transported from various sites in southern California by rail via Southern Pacific Railroad's main lines, and by truck via existing roadways. For site access, MRC proposes to utilize (1) Kaiser's 52-mile industrial rail line, connecting the mine with the main line of the Southern Pacific Railroad at Ferrum, California, and (2) the reconstructed Eagle Mountain Road and new extension, connecting the mine with Interstate 10. At ultimate project development, up to 20,000 tons of waste per day will be transported to the site, with 16,000 – 18,000 tons per day being transported by rail and 2,000 – 4,000 tons per day by truck.

Emissions generated by operations at the Eagle Mountain site will be associated with a number of activities. These activities will involve both stationary sources, such as the landfill gas flares, and mobile equipment, such as the haul trucks and heavy equipment operated on-site. By emission type, on-site sources can be grouped into four classes: motor vehicles, fugitive dust sources, fugitive vapor sources, and stationary combustion sources. Motor vehicles include on-highway haul trucks, and off-highway heavy equipment. Fugitive dust sources include short-term construction activities, landfill road use, cover material processing, and solid waste covering. Fugitive vapor sources include the landfill and the on-site fuel dispensing facility. Stationary combustion sources include the landfill gas flares.

Motor vehicles will generate "tailpipe" emissions, fugitive dust from unpaved road travel, and cover material handling. Processing of daily cover material will produce particulate emissions as ore tailing or overburden are reclaimed by screening and crushing. As the refuse begins to decompose, gas will be generated by the anaerobic activity in the landfill. The gas will consist primarily of methane and carbon dioxide with trace concentrations of other substances either produced by the bacterial activity or evaporated from materials disposed of in the landfill. The gas will be collected through a series of vertical extraction wells and will be disposed of by flaring. Finally, on-site refueling of plant vehicles will generate fugitive emissions.

Choice of Models

A number of EPA-approved air quality dispersion models are available to conduct analyses for both the simple and complex terrain surrounding the Eagle Mountain site. The most important considerations for model choice for this project are complex terrain and the diverse nature of project sources. These sources range from point sources such as the landfill gas flares, to area sources such as the landfill working face and container handling area, and require the power of both point and area source algorithms to be modeled properly. Simple terrain models, such as ISCST, internally truncate terrain at stack height, and thus, they are inappropriate for the complex terrain found at Eagle Mountain. Many of the standard or recently-developed models usually used for complex terrain modeling (COMPLEX1, RTDM, CTDMPLUS) were explicitly developed for point sources such as stacks, and thus, they too are inappropriate for modeling the Eagle Mountain landfill project.

SHORTZ was the one available model that was suitable for both point and area sources in regions of simple and complex terrain (and the only model approved by California Air Pollution Control Officers Association for air toxics assessment of area sources in complex terrain). Thus, SHORTZ was chosen for modeling the Eagle Mountain project.

Model Inputs

Source and receptor data for the SHORTZ modeling runs were much the same as those in the previous SHORTZ modeling runs, described in the Draft EIS/EIR. A brief synopsis of relevant model inputs and how they varied from inputs used in the Draft EIS/EIR modeling follows.

Seventeen sources were used for the original modeling: five area sources (representing the coarse and fine tailings piles, the landfill face, the conveyor system, and the container handling yard), one point source (a single landfill gas flare), and eleven road segments, modeled as long, narrow area sources. For the revised modeling, the emission rates for the eleven road segments were reduced approximately 50%. This was done after it was discovered that the emission rates for the road segments used in the original modeling were based on incorrect haul distances. When the haul distances were corrected, the corresponding emission rates for each road segment decreased.

In addition, road segments #1, #3, and #8, and the container handling yard, were each divided into four parts with the emission rates for each source evenly divided among their individual parts. Dividing the three road segments and container handling yard into smaller parts was done after it was discovered that SHORTZ handles long area sources improperly when a particular receptor lies nearly along the long axis of a narrow area source. This particular problem was alleviated by breaking road segments #1, #3 and #8 and the container handling yard into smaller parts (thereby modeling more realistically). Consistency dictated that all long road segments (greater than 500 meters long) should be divided similarly. A single coarse-grid model run indicated, however, that no change in pollutant concentrations resulted from dividing all long road segments into smaller parts, at the expense of significantly longer model run times. Thus, only road segments #1, #3, and #8, and the container handling yard, were divided into smaller parts for the revised modeling.

Changes to the landfill gas flares were made after new information regarding operating parameters, number, and locations of the flares became available. The original modeling analysis assumed a single large flare located on the east side of the project near the Phase II container handling yard. For the revised modeling, emissions from eight separate flares were analyzed rather than emissions from a single large flare. The emission rate for each of the eight flares is equivalent to 1/8 of the emission rate used for the single large flare in the original modeling. Two of the eight flares are still located near the Phase II container handling yard. A second pair of flares are located north of the fine tailing area. A third pair of flares are located near the south haul road approximately 2,500 meters to the east of the southwest corner of the project. The remaining pair of flares are located near the southwest corner of the project boundary. In addition to changes to the number and locations of the flares, the stack height for each landfill flare was increased from 15 feet to 50 feet, based on recommendations from a vendor of flares.

Finally, for the revised modeling, the landfill working face area source was rotated slightly so that its sides were oriented exactly north-south, east-west.

Several grids were used for receptor locations: a coarse grid (90 receptors spaced at 1 km x 1 km intervals), and several focused finer grids (100 meter x 100 meter intervals). Receptors on the boundaries of both the project and Joshua Tree National Monument were included together with the evenly-spaced coarse grid receptors for a total of 278 coarse-grid receptors. The coarse grid spans an area 6000 meters to the west, 3000 meters to the east, 2400 meters to the south, and 5600 meters to the north of the project's coarse tailings pile. The upper row of the coarse grid falls within Joshua Tree National Monument. The 43 receptors along the Joshua Tree National Monument boundary are spaced rather close to one another (200 meters apart) from approximately (-4570 meters, 4810 meters) to (3130 meters, 5610 meters). The remaining 145 receptors are spaced along the project boundary at 200 meter intervals.

Finer grids were used at specific locations on the eastern side (particularly near the container handling yard) and southwestern side of the project boundary, where coarse-grid modeling indicates concentration maxima for several criteria pollutants are located. Elevations for the coarse and fine grid receptors were derived from a U.S. Geological Survey Digital Elevation Model (DEM) tape for the area. Elevations from this DEM tape were found to be reliable except in the immediate area of the project (the elevation data were measured by topographic surveys before the iron ore mine was developed); thus the DEM elevation data were supplemented in the vicinity of the project, when required, by a topographic map provided by MRC.

Model Results

SHORTZ input files (less the meteorological input) are given in Attachment 8-1. Output files from the POSTZ postprocessor for the SHORTZ runs used to determine whether the project is in compliance with criteria pollutant standards are given in Attachment 8-2. Similar input and output files used in the health risk assessment are included in Attachments 8-3 and 8-4, respectively. SHORTZ input meteorological data are summarized in Attachment 7, Appendix M of the Final EIS/EIR, which also includes a summary of the air quality collected at the Eagle Mountain site. Modified tables and isopleths showing ambient impacts for the proposed project and all alternatives are included in Attachment 5, Appendix M of the Final EIS/EIR (Tables 29, 36, 49, 52).

ATTACHMENT 8-1

SHORTZ MODEL INPUT
FOR THE CRITERIA POLLUTANT ANALYSIS

```
2EAGLE MTN - SHORTZ - NOx - PROPOSED - WITH MITIGATION - COARSE GRID - 1H AVG

  00  00 278  36  24   0 370
       0   0  00        3   1   0
   -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4
   -5973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4
   -4973.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4573.4
   -4573.4     -4573.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4
   -4373.4     -4173.4     -4173.4     -4173.4     -3973.4     -3973.4     -3973.4     -3973.4
   -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3773.4
   -3773.4     -3773.4     -3773.4     -3773.4     -3573.4     -3573.4     -3573.4     -3373.4
   -3373.4     -3373.4     -3273.4     -3273.4     -3273.4     -3173.4     -3173.4     -3173.4
   -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4
   -2973.4     -2973.4     -2973.4     -2973.4     -2773.4     -2773.4     -2773.4     -2573.4
   -2573.4     -2573.4     -2373.4     -2373.4     -2373.4     -2173.4     -2173.4     -2173.4
   -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4
   -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1773.4
   -1773.4     -1773.4     -1773.4     -1773.4     -1773.4     -1573.4     -1573.4     -1573.4
   -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4
   -1373.4     -1373.4     -1373.4     -1173.4     -1173.4     -1173.4     -1173.4     -1173.4
   -1173.4     -1173.4      -973.4      -973.4      -973.4      -973.4      -973.4      -973.4
    -973.4      -973.4      -973.4      -973.4      -973.4      -973.4      -773.4      -773.4
    -773.4      -773.4      -773.4      -573.4      -573.4      -573.4      -573.4      -573.4
    -373.4      -373.4      -373.4      -373.4      -373.4      -373.4      -173.4      -173.4
    -173.4        26.6        26.6        26.6        26.6        26.6        26.6        26.6
      26.6        26.6        26.6        26.6        26.6       226.6       226.6       226.6
     426.6       426.6       426.6       426.6       626.6       626.6       626.6       826.6
     826.6       826.6      1026.6      1026.6      1026.6      1026.6      1026.6      1026.6
    1026.6      1026.6      1026.6      1026.6      1026.6      1026.6      1226.6      1226.6
    1226.6      1426.6      1426.6      1426.6      1426.6      1626.6      1626.6      1626.6
    1626.6      1626.6      1626.6      1626.6      1626.6      1626.6      1826.6      1826.6
    1826.6      1826.6      2026.6      2026.6      2026.6      2026.6      2026.6      2037.0
    2026.6      2026.6      2026.6      2026.6      2026.6      2026.6      2226.6      2226.6
    2226.6      2226.6      2226.6      2226.6      2426.6      2426.6      2426.6      2426.6
    2426.6      2426.6      2626.6      2626.6      2626.6      2626.6      2626.6      2626.6
    2626.6      2626.6      2626.6      2626.6      2626.6      2262.0      2626.6      2826.6
    2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6
    3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6
    3026.6      3026.6      3226.6      3226.6      3226.6      3226.6
   -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
    5610.0     -2390.0     -1390.0      -390.0      1610.0      2610.0      3610.0      4610.0
    5610.0       410.0       610.0       810.0      1010.0      1210.0      1210.0       410.0
    1210.0      4810.0        10.0       210.0       410.0      1410.0      1610.0      1610.0
    4810.0        10.0      1610.0      4810.0     -2390.0     -1390.0      -390.0        10.0
     610.0      1610.0      2610.0      3610.0      4610.0      4810.0      5610.0        10.0
    1610.0      1810.0      2010.0      4810.0        10.0      2010.0      4810.0        10.0
    2010.0      4810.0      2010.0      2210.0      2410.0        10.0      2410.0      4810.0
   -2390.0     -1390.0      -390.0        10.0       610.0      1610.0      2410.0      2610.0
    3610.0      4610.0      4810.0      5610.0        10.0      2410.0      4810.0        10.0
    2410.0      4810.0        10.0      2410.0      4810.0        10.0      2410.0      4810.0
   -2390.0     -1390.0      -390.0      -190.0        10.0       210.0       410.0       610.0
    1610.0      2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0
    -590.0       210.0       410.0      2410.0      4810.0     -1190.0      -990.0      -790.0
    -590.0      -390.0      -190.0        10.0       210.0       410.0      2410.0      4810.0
   -1190.0      2410.0      4810.0     -1190.0      -990.0      -790.0      -590.0      -390.0
    2410.0      4810.0     -2390.0     -1390.0      -390.0      -190.0       610.0      1610.0
    2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -190.0      2010.0
    2210.0      2410.0      4810.0      -190.0      2010.0      2210.0      2410.0      4810.0
    -390.0      -190.0      2010.0      2210.0      2410.0      4810.0      -390.0      2410.0
    4810.0     -2390.0     -1390.0      -590.0      -390.0       610.0      1610.0      2410.0
    2610.0      3610.0      4610.0      4810.0      5610.0      -590.0      2410.0      4810.0
    -790.0      -590.0      2410.0      4810.0      -790.0      2410.0      4810.0      -790.0
    2410.0      4810.0     -2390.0     -1390.0      -790.0      -390.0       610.0      1610.0
    2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0      2410.0
    4810.0      -990.0      -790.0      2410.0      4810.0     -1190.0      -990.0      1610.0
    1810.0      2010.0      2210.0      2410.0      4810.0      5010.0     -1390.0     -1190.0
    1610.0      5010.0     -2390.0     -1390.0      -390.0       610.0      1410.0      1231.0
    1610.0      2610.0      3610.0      4610.0      5010.0      5610.0     -1590.0       610.0
     810.0      1210.0      1410.0      5010.0     -1590.0       410.0       610.0       810.0
    1210.0      5010.0     -1590.0     -1390.0      -390.0      -190.0        10.0       210.0
     410.0       610.0       810.0      1010.0      1210.0       433.0      5010.0     -1390.0
   -1190.0      -990.0      -790.0      -590.0      -390.0      -190.0        10.0      5010.0
   -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
    5010.0      5610.0      5010.0      5210.0      5610.0      6010.0
     798.0       793.0       781.0       852.0       731.0       730.0       728.0       747.0
     625.0       797.0       731.0       652.0       771.0       792.0       904.0       858.0
     570.0       646.0       669.0       666.0       695.0       730.0       730.0       633.0
     722.0       853.0       609.0       554.0       583.0       694.0       756.0       756.0
     856.0       553.0       787.0       828.0       767.0       732.0       548.0       549.0
     722.4       773.0       875.0       914.0       954.0       838.0       686.0       549.0
    755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
    799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
    661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
    865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
    732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
    487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
    768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
    497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
    487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
    427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
    610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
    610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
    610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
    410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
    609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
    489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
    365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
    372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
    363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
    585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
    331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
    321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
    312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
    310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
    305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
    305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
    302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
    297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
    348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0001120     0.0888 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0888 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0888 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0888 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     12.103-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.6510  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.1480 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.7760 -4234.   227.  15.24   579.  1158. 130.58        1.8288
0006200     0.7760 -4123.   185.  15.24   549.  1158. 130.58        1.8288
0006300     0.7760 -2562.   354.  15.24   479.  1158. 130.58        1.8288
0006400     0.7760 -2434.   371.  15.24   472.  1158. 130.58        1.8288
0006500     0.7760  1318.   152.  15.24   351.  1158. 130.58        1.8288
0006600     0.7760  1438.   169.  15.24   340.  1158. 130.58        1.8288
0006700     0.7760  1565.   573.  15.24   335.  1158. 130.58        1.8288
0006800     0.7760  1569.   733.  15.24   335.  1158. 130.58        1.8288
0007120     0.0813 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0813 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0813 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0813 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.4860  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.2258  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.2258  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.2258  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.2258 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.1050  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.4230  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.8520  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0920   983.   258.    5.0   335.    30.   352.   112.
0014120     0.1001 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.1001 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.1001 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.1001 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0000   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0000  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.1030  1509.   387.    5.0   320.    30.   925.     4.
```

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2EAGLE MTN - SHORTZ - NOx - PROPOSED - WITH MITIGATION - FINE GRID "A1" - 1H AVG

  00  00  25  36  24    0 370
       0   0  00       3   1   0
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1873.4   -1873.4   -1873.4
   -1873.4   -1873.4   -1773.4   -1773.4   -1773.4   -1773.4   -1773.4   -1673.4
   -1673.4   -1673.4   -1673.4   -1673.4   -1573.4   -1573.4   -1573.4   -1573.4
   -1573.4
      10.0     110.0     210.0     310.0     410.0      10.0     110.0     210.0
     310.0     410.0      10.0     110.0     210.0     310.0     410.0      10.0
     110.0     210.0     310.0     410.0      10.0     110.0     210.0     310.0
     410.0
     549.0     549.0     549.0     548.0     547.0     548.0     549.0     546.0
     534.0     512.0     548.0     549.0     539.0     511.0     491.0     548.0
     543.0     520.0     496.0     487.0     505.0     504.0     495.0     485.0
     482.0
   .683            366.7
0001120     0.0888 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0888 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0888 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0888 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     12.103-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.6510  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.1480 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.7760 -4234.   227.  15.24   579.  1158. 130.58          1.8288
0006200     0.7760 -4123.   185.  15.24   549.  1158. 130.58          1.8288
0006300     0.7760 -2562.   354.  15.24   479.  1158. 130.58          1.8288
0006400     0.7760 -2434.   371.  15.24   472.  1158. 130.58          1.8288
0006500     0.7760  1318.   152.  15.24   351.  1158. 130.58          1.8288
0006600     0.7760  1438.   169.  15.24   340.  1158. 130.58          1.8288
0006700     0.7760  1565.   573.  15.24   335.  1158. 130.58          1.8288
0006800     0.7760  1569.   733.  15.24   335.  1158. 130.58          1.8288
0007120     0.0813 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0813 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0813 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0813 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.4860  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.2258  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.2258  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.2258  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.2258 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.1050  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.4230  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.8520  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0920   983.   258.    5.0   335.    30.   352.   112.
0014120     0.1001 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.1001 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.1001 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.1001 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0000   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0000  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.1030  1509.   387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - NOx - PROPOSED - WITH MITIGATION - COARSE GRID - 24H AVG

 00  00 278  36  24   0 370
    0   0  00       3   1   0
   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4
   -5973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4
   -4973.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4573.4
   -4573.4   -4573.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4
   -4373.4   -4173.4   -4173.4   -4173.4   -3973.4   -3973.4   -3973.4   -3973.4
   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3773.4
   -3773.4   -3773.4   -3773.4   -3773.4   -3573.4   -3573.4   -3573.4   -3373.4
   -3373.4   -3373.4   -3273.4   -3273.4   -3273.4   -3173.4   -3173.4   -3173.4
   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4
   -2973.4   -2973.4   -2973.4   -2973.4   -2773.4   -2773.4   -2773.4   -2573.4
   -2573.4   -2573.4   -2373.4   -2373.4   -2373.4   -2173.4   -2173.4   -2173.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1773.4
   -1773.4   -1773.4   -1773.4   -1773.4   -1773.4   -1573.4   -1573.4   -1573.4
   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4
   -1373.4   -1373.4   -1373.4   -1173.4   -1173.4   -1173.4   -1173.4   -1173.4
   -1173.4   -1173.4    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4
    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4    -773.4    -773.4
    -773.4    -773.4    -773.4    -573.4    -573.4    -573.4    -573.4    -573.4
    -373.4    -373.4    -373.4    -373.4    -373.4    -373.4    -173.4    -173.4
    -173.4      26.6      26.6      26.6      26.6      26.6      26.6      26.6
      26.6      26.6      26.6      26.6      26.6     226.6     226.6     226.6
     426.6     426.6     426.6     426.6     626.6     626.6     626.6     826.6
     826.6     826.6    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6
    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6    1226.6    1226.6
    1226.6    1426.6    1426.6    1426.6    1426.6    1626.6    1626.6    1626.6
    1626.6    1626.6    1626.6    1626.6    1626.6    1626.6    1826.6    1826.6
    1826.6    1826.6    2026.6    2026.6    2026.6    2026.6    2026.6    2037.0
    2026.6    2026.6    2026.6    2026.6    2026.6    2026.6    2226.6    2226.6
    2226.6    2226.6    2226.6    2226.6    2426.6    2426.6    2426.6    2426.6
    2426.6    2426.6    2626.6    2626.6    2626.6    2626.6    2626.6    2626.6
    2626.6    2626.6    2626.6    2626.6    2626.6    2262.0    2626.6    2826.6
    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6
    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6
    3026.6    3026.6    3226.6    3226.6    3226.6    3226.6
   -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
    5610.0   -2390.0   -1390.0    -390.0    1610.0    2610.0    3610.0    4610.0
    5610.0     410.0     610.0     810.0    1010.0    1210.0    1210.0     410.0
    1210.0    4810.0      10.0     210.0     410.0    1410.0    1610.0    1610.0
    4810.0      10.0    1610.0    4810.0   -2390.0   -1390.0    -390.0      10.0
     610.0    1610.0    2610.0    3610.0    4610.0    4810.0    5610.0      10.0
    1610.0    1810.0    2010.0    4810.0      10.0    2010.0    4810.0      10.0
    2010.0    4810.0    2010.0    2210.0    2410.0      10.0    2410.0    4810.0
   -2390.0   -1390.0    -390.0      10.0     610.0    1610.0    2410.0    2610.0
    3610.0    4610.0    4810.0    5610.0      10.0    2410.0    4810.0      10.0
    2410.0    4810.0      10.0    2410.0    4810.0      10.0    2410.0    4810.0
   -2390.0   -1390.0    -390.0    -190.0      10.0     210.0     410.0     610.0
    1610.0    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0
    -590.0     210.0     410.0    2410.0    4810.0   -1190.0    -990.0    -790.0
    -590.0    -390.0    -190.0      10.0     210.0     410.0    2410.0    4810.0
   -1190.0    2410.0    4810.0   -1190.0    -990.0    -790.0    -590.0    -390.0
    2410.0    4810.0   -2390.0   -1390.0    -390.0    -190.0     610.0    1610.0
    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -190.0    2010.0
    2210.0    2410.0    4810.0    -190.0    2010.0    2210.0    2410.0    4810.0
    -390.0    -190.0    2010.0    2210.0    2410.0    4810.0    -390.0    2410.0
    4810.0   -2390.0   -1390.0    -590.0    -390.0     610.0    1610.0    2410.0
    2610.0    3610.0    4610.0    4810.0    5610.0    -590.0    2410.0    4810.0
    -790.0    -590.0    2410.0    4810.0    -790.0    2410.0    4810.0    -790.0
    2410.0    4810.0   -2390.0   -1390.0    -790.0    -390.0     610.0    1610.0
    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0    2410.0
    4810.0    -990.0    -790.0    2410.0    4810.0   -1190.0    -990.0    1610.0
    1810.0    2010.0    2210.0    2410.0    4810.0    5010.0   -1390.0   -1190.0
    1610.0    5010.0   -2390.0   -1390.0    -390.0     610.0    1410.0    1231.0
    1610.0    2610.0    3610.0    4610.0    5010.0    5610.0   -1590.0     610.0
     810.0    1210.0    1410.0    5010.0   -1590.0     410.0     610.0     810.0
    1210.0    5010.0   -1590.0   -1390.0    -390.0    -190.0      10.0     210.0
     410.0     610.0     810.0    1010.0    1210.0     433.0    5010.0   -1390.0
   -1190.0    -990.0    -790.0    -590.0    -390.0    -190.0      10.0    5010.0
   -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
    5010.0    5610.0    5010.0    5210.0    5610.0    6010.0
     798.0     793.0     781.0     852.0     731.0     730.0     728.0     747.0
     625.0     797.0     731.0     652.0     771.0     792.0     904.0     858.0
     570.0     646.0     669.0     666.0     695.0     730.0     730.0     633.0
     722.0     853.0     609.0     554.0     583.0     694.0     756.0     756.0
     856.0     553.0     787.0     828.0     767.0     732.0     548.0     549.0
     722.4     773.0     875.0     914.0     954.0     838.0     686.0     549.0
    755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
    799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
    661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
    865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
    732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
    487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
    768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
    497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
    487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
    427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
    610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
    610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
    610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
    410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
    609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
    489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
    365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
    372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
    363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
    585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
    331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
    321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
    312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
    310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
    305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
    305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
    302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
    297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
    348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0001120     0.0370 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0370 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0370 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0370 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     4.8660-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.2710  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.0490 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.7760 -4234.   227.  15.24   579.  1158. 130.58        1.8288
0006200     0.7760 -4123.   185.  15.24   549.  1158. 130.58        1.8288
0006300     0.7760 -2562.   354.  15.24   479.  1158. 130.58        1.8288
0006400     0.7760 -2434.   371.  15.24   472.  1158. 130.58        1.8288
0006500     0.7760  1318.   152.  15.24   351.  1158. 130.58        1.8288
0006600     0.7760  1438.   169.  15.24   340.  1158. 130.58        1.8288
0006700     0.7760  1565.   573.  15.24   335.  1158. 130.58        1.8288
0006800     0.7760  1569.   733.  15.24   335.  1158. 130.58        1.8288
0007120     0.0343 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0343 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0343 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0343 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.2040  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.0950  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.0950  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.0950  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.0950 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0440  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.1790  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.3590  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0390   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0425 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0425 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0425 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0425 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0000   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0000  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0440  1509.   387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - NOx - PROPOSED - WITH MITIGATION - FINE GRID "B2" - 24H AVG

  00  00  25  36  24   0 370
       0   0  00        3   1   0
    2326.6    2426.6    2526.6    2626.6    2262.0    2262.0    2326.6    2426.6
    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6    2626.6    2226.6
    2326.6    2426.6    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6
    2626.6
     410.0     410.0     410.0     410.0     433.0     510.0     510.0     510.0
     510.0     510.0     610.0     610.0     610.0     610.0     610.0     710.0
     710.0     710.0     710.0     710.0     810.0     810.0     810.0     810.0
     810.0
     310.0     307.0     305.0     305.0     310.9     312.0     309.0     304.0
     304.0     305.0     311.0     308.0     304.0     305.0     305.0     311.0
     308.0     306.0     304.0     305.0     310.0     307.0     305.0     304.0
     305.0
   .683            366.7
0001120     0.0370 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0370 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0370 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0370 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     4.8660-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.2710  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.0490 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.7760 -4234.   227.  15.24   579.  1158. 130.58        1.8288
0006200     0.7760 -4123.   185.  15.24   549.  1158. 130.58        1.8288
0006300     0.7760 -2562.   354.  15.24   479.  1158. 130.58        1.8288
0006400     0.7760 -2434.   371.  15.24   472.  1158. 130.58        1.8288
0006500     0.7760  1318.   152.  15.24   351.  1158. 130.58        1.8288
0006600     0.7760  1438.   169.  15.24   340.  1158. 130.58        1.8288
0006700     0.7760  1565.   573.  15.24   335.  1158. 130.58        1.8288
0006800     0.7760  1569.   733.  15.24   335.  1158. 130.58        1.8288
0007120     0.0343 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0343 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0343 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0343 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.2040  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.0950  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.0950  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.0950  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.0950 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0440  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.1790  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.3590  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0390   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0425 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0425 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0425 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0425 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0000   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0000  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0440  1509.   387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - NOx - PROPOSED - NO MITIGATION - COARSE GRID - 1H AVG

  00  00 278  36  24    0 370
     0   0  00          3   1   0
     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4
     -5973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4
     -4973.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4573.4
     -4573.4     -4573.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4
     -4373.4     -4173.4     -4173.4     -4173.4     -3973.4     -3973.4     -3973.4     -3973.4
     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3773.4
     -3773.4     -3773.4     -3773.4     -3773.4     -3573.4     -3573.4     -3573.4     -3373.4
     -3373.4     -3373.4     -3273.4     -3273.4     -3273.4     -3173.4     -3173.4     -3173.4
     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4
     -2973.4     -2973.4     -2973.4     -2973.4     -2773.4     -2773.4     -2773.4     -2573.4
     -2573.4     -2573.4     -2373.4     -2373.4     -2373.4     -2173.4     -2173.4     -2173.4
     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4
     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1773.4
     -1773.4     -1773.4     -1773.4     -1773.4     -1773.4     -1573.4     -1573.4     -1573.4
     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4
     -1373.4     -1373.4     -1373.4     -1173.4     -1173.4     -1173.4     -1173.4     -1173.4
     -1173.4     -1173.4      -973.4      -973.4      -973.4      -973.4      -973.4      -973.4
      -973.4      -973.4      -973.4      -973.4      -973.4      -973.4      -773.4      -773.4
      -773.4      -773.4      -773.4      -573.4      -573.4      -573.4      -573.4      -573.4
      -373.4      -373.4      -373.4      -373.4      -373.4      -373.4      -173.4      -173.4
      -173.4        26.6        26.6        26.6        26.6        26.6        26.6        26.6
        26.6        26.6        26.6        26.6        26.6       226.6       226.6       226.6
       426.6       426.6       426.6       426.6       626.6       626.6       626.6       826.6
       826.6       826.6      1026.6      1026.6      1026.6      1026.6      1026.6      1026.6
      1026.6      1026.6      1026.6      1026.6      1026.6      1026.6      1226.6      1226.6
      1226.6      1426.6      1426.6      1426.6      1426.6      1626.6      1626.6      1626.6
      1626.6      1626.6      1626.6      1626.6      1626.6      1626.6      1826.6      1826.6
      1826.6      1826.6      2026.6      2026.6      2026.6      2026.6      2026.6      2037.0
      2026.6      2026.6      2026.6      2026.6      2026.6      2026.6      2226.6      2226.6
      2226.6      2226.6      2226.6      2226.6      2426.6      2426.6      2426.6      2426.6
      2426.6      2426.6      2626.6      2626.6      2626.6      2626.6      2626.6      2626.6
      2626.6      2626.6      2626.6      2626.6      2626.6      2262.0      2626.6      2826.6
      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6
      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6
      3026.6      3026.6      3226.6      3226.6      3226.6      3226.6
     -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
      5610.0     -2390.0     -1390.0      -390.0      1610.0      2610.0      3610.0      4610.0
      5610.0       410.0       610.0       810.0      1010.0      1210.0      1210.0       410.0
      1210.0      4810.0        10.0       210.0       410.0      1410.0      1610.0      1610.0
      4810.0        10.0      1610.0      4810.0     -2390.0     -1390.0      -390.0        10.0
       610.0      1610.0      2610.0      3610.0      4610.0      4810.0      5610.0        10.0
      1610.0      1810.0      2010.0      4810.0        10.0      2010.0      4810.0        10.0
      2010.0      4810.0      2010.0      2210.0      2410.0        10.0      2410.0      4810.0
     -2390.0     -1390.0      -390.0        10.0       610.0      1610.0      2410.0      2610.0
      3610.0      4610.0      4810.0      5610.0        10.0      2410.0      4810.0        10.0
      2410.0      4810.0        10.0      2410.0      4810.0        10.0      2410.0      4810.0
     -2390.0     -1390.0      -390.0      -190.0        10.0       210.0       410.0       610.0
      1610.0      2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0
      -590.0       210.0       410.0      2410.0      4810.0     -1190.0      -990.0      -790.0
      -590.0      -390.0      -190.0        10.0       210.0       410.0      2410.0      4810.0
     -1190.0      2410.0      4810.0     -1190.0      -990.0      -790.0      -590.0      -390.0
      2410.0      4810.0     -2390.0     -1390.0      -390.0      -190.0       610.0      1610.0
      2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -190.0      2010.0
      2210.0      2410.0      4810.0      -190.0      2010.0      2210.0      2410.0      4810.0
      -390.0      -190.0      2010.0      2210.0      2410.0      4810.0      -390.0      2410.0
      4810.0     -2390.0     -1390.0      -590.0      -390.0       610.0      1610.0      2410.0
      2610.0      3610.0      4610.0      4810.0      5610.0      -590.0      2410.0      4810.0
      -790.0      -590.0      2410.0      4810.0      -790.0      2410.0      4810.0      -790.0
      2410.0      4810.0     -2390.0     -1390.0      -790.0      -390.0       610.0      1610.0
      2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0      2410.0
      4810.0      -990.0      -790.0      2410.0      4810.0     -1190.0      -990.0      1610.0
      1810.0      2010.0      2210.0      2410.0      4810.0      5010.0     -1390.0     -1190.0
      1610.0      5010.0     -2390.0     -1390.0      -390.0       610.0      1410.0      1231.0
      1610.0      2610.0      3610.0      4610.0      5010.0      5610.0     -1590.0       610.0
       810.0      1210.0      1410.0      5010.0     -1590.0       410.0       610.0       810.0
      1210.0      5010.0     -1590.0     -1390.0      -390.0      -190.0        10.0       210.0
       410.0       610.0       810.0      1010.0      1210.0       433.0      5010.0     -1390.0
     -1190.0      -990.0      -790.0      -590.0      -390.0      -190.0        10.0      5010.0
     -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
      5010.0      5610.0      5010.0      5210.0      5610.0      6010.0
       798.0       793.0       781.0       852.0       731.0       730.0       728.0       747.0
       625.0       797.0       731.0       652.0       771.0       792.0       904.0       858.0
       570.0       646.0       669.0       666.0       695.0       730.0       730.0       633.0
       722.0       853.0       609.0       554.0       583.0       694.0       756.0       756.0
       856.0       553.0       787.0       828.0       767.0       732.0       548.0       549.0
       722.4       773.0       875.0       914.0       954.0       838.0       686.0       549.0
     755.0     792.0      824.0     839.0     549.0      848.0     852.0      549.0
     799.0     831.0      787.0     841.0     862.0      567.0     841.0      806.0
     661.0     613.0      609.0     601.0     579.1      823.0     784.0      786.0
     865.0     770.0      747.0     642.0     609.0      731.0     724.0      587.0
     732.0     713.0      574.0     726.0     700.0      564.0     675.0      675.0
     487.0     522.0      487.0     526.0     549.0      549.0     547.0      478.5
     768.1     675.0      799.0     696.0     628.0      646.0     597.0      529.0
     497.0     539.0      491.0     668.0     609.0      433.0     459.0      482.0
     487.0     465.0      475.0     505.0     495.0      482.0     648.0      609.0
     427.0     609.0      575.0     423.0     423.0      424.0     425.0      425.0
     610.0     555.0      407.0     411.0     421.0      423.0     387.1      594.4
     610.0     609.0      609.0     551.0     549.0      549.0     420.0      603.0
     610.0     610.0      549.0     417.0     593.0      609.0     610.0      572.0
     410.0     418.0      564.0     594.0     599.0      598.0     402.0      502.0
     609.0     366.0      366.0     384.0     392.0      292.6     501.7      428.0
     489.0     555.0      605.0     609.0     487.0      373.0     426.0      608.0
     365.0     366.0      424.0     575.0     360.0      408.0     548.0      355.0
     372.0     563.0      339.0     346.0     350.0      351.0     320.0      397.8
     363.0     365.0      422.0     541.0     548.0      600.0     344.0      355.0
     585.0     337.0      338.0     346.0     588.0      331.0     332.0      331.0
     331.0     332.0      333.0     337.0     532.0      533.0     325.0      326.0
     321.0     486.0      309.0     320.0     322.0      317.0     313.0      310.9
     312.0     326.7      342.0     440.0     469.0      515.0     313.0      311.0
     310.0     305.0      305.0     438.0     309.0      307.0     304.0      305.0
     305.0     426.0      304.0     304.0     305.0      304.0     305.0      305.0
     305.0     305.0      305.0     305.0     305.0      310.9     380.0      301.0
     302.0     302.0      302.0     303.0     303.0      303.0     303.0      358.0
     297.0     298.0      300.0     301.0     302.0      303.0     305.0      333.0
     348.0     372.0      338.0     345.0     362.0      373.0
   .683             366.7
0001120     0.5518 2145.2   543.6     5.0   312.   111.    300.   164.
0001220     0.5517 2227.9   255.2     5.0   312.   111.    300.   164.
0001320     0.5518 2062.6   832.0     5.0   312.   111.    300.   164.
0001420     0.5517 1979.8  1120.4     5.0   312.   111.    300.   164.
0002020     19.653-1039.3  1105.0     5.0   457.   380.    650.    90.
0003020     0.9010  0000.   0000.     5.0   457.   200.    380.    90.
0004020     0.7240 1478.8  -102.7     5.0   366.   140.    360.    90.
0005020     0.0000  0000.   0000.     4.0   457.    10.     50.    90.
0006100     0.7760 -4234.    227.   15.24   579.  1158.  130.58        1.8288
0006200     0.7760 -4123.    185.   15.24   549.  1158.  130.58        1.8288
0006300     0.7760 -2562.    354.   15.24   479.  1158.  130.58        1.8288
0006400     0.7760 -2434.    371.   15.24   472.  1158.  130.58        1.8288
0006500     0.7760  1318.    152.   15.24   351.  1158.  130.58        1.8288
0006600     0.7760  1438.    169.   15.24   340.  1158.  130.58        1.8288
0006700     0.7760  1565.    573.   15.24   335.  1158.  130.58        1.8288
0006800     0.7760  1569.    733.   15.24   335.  1158.  130.58        1.8288
0007120     0.1300 1799.0   943.0     5.0   320.    30.   111.5   249.
0007220     0.1300 1903.1   982.9     5.0   320.    30.   111.5   249.
0007320     0.1300 1694.6   903.0     5.0   320.    30.   111.5   249.
0007420     0.1300 1590.9   863.1     5.0   320.    30.   111.5   249.
0008020     0.7650  1380.   1360.     5.0   381.    30.   1083.   342.
0009120     0.3558  551.3  1636.1     5.0   457.    30.   452.3   250.
0009220     0.3557  919.8  1770.2     5.0   457.    30.   452.3   250.
0009320     0.3558  182.7  1501.9     5.0   457.    30.   452.3   250.
0009420     0.3557 -185.8  1367.8     5.0   457.    30.   452.3   250.
0010020     0.1660  -655.   1231.     5.0   518.    30.    330.   263.
0011020     0.7390  -844.    983.     5.0   457.    30.    460.   186.
0012020     1.7120  -030.    536.     5.0   396.    30.   1733.   105.
0013020     0.1840   983.    258.     5.0   335.    30.    352.   112.
0014120     0.1588 1389.3   598.1     5.0   366.    30.   191.5    31.
0014220     0.1587 1487.9   762.2     5.0   366.    30.   191.5    31.
0014320     0.1588 1290.7   433.9     5.0   366.    30.   191.5    31.
0014420     0.1587 1192.1   269.8     5.0   366.    30.   191.5    31.
0015020     0.3460   268.    298.     5.0   411.    30.   1093.   268.
0016020     0.0880  -139.    139.     5.0   457.    30.    393.   135.
0017020     0.1440  1509.    387.     5.0   320.    30.    925.     4.
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2EAGLE MTN - SHORTZ - NOx - PROPOSED - NO MITIGATION - FINE GRID "B" - 1H AVG

  00  00  46  36  24   0 370
       0   0  00       3   1   0
    2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2037.0    2026.6
    2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2026.6    2126.6
    2226.6    2326.6    2426.6    2526.6    2626.6    2326.6    2426.6    2526.6
    2626.6    2262.0    2262.0    2326.6    2426.6    2526.6    2626.6    2226.6
    2326.6    2426.6    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6
    2626.6    2226.6    2326.6    2426.6    2526.6    2626.6
    1210.0    1210.0    1210.0    1210.0    1210.0    1210.0    1231.0    1310.0
    1310.0    1310.0    1310.0    1310.0    1310.0    1310.0    1410.0    1410.0
    1410.0    1410.0    1410.0    1410.0    1410.0     410.0     410.0     410.0
     410.0     433.0     510.0     510.0     510.0     510.0     510.0     610.0
     610.0     610.0     610.0     610.0     710.0     710.0     710.0     710.0
     710.0     810.0     810.0     810.0     810.0     810.0
     308.0     305.0     305.0     305.0     305.0     305.0     310.9     313.0
     307.0     305.0     305.0     305.0     305.0     305.0     313.0     308.0
     305.0     305.0     305.0     305.0     305.0     310.0     307.0     305.0
     305.0     310.9     312.0     309.0     304.0     304.0     305.0     311.0
     308.0     304.0     305.0     305.0     311.0     308.0     306.0     304.0
     305.0     310.0     307.0     305.0     304.0     305.0
   .683            366.7
0001120     0.5518 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.5517 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.5518 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.5517 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     19.653-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.9010  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.7240 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.7760 -4234.   227.  15.24   579.  1158. 130.58        1.8288
0006200     0.7760 -4123.   185.  15.24   549.  1158. 130.58        1.8288
0006300     0.7760 -2562.   354.  15.24   479.  1158. 130.58        1.8288
0006400     0.7760 -2434.   371.  15.24   472.  1158. 130.58        1.8288
0006500     0.7760  1318.   152.  15.24   351.  1158. 130.58        1.8288
0006600     0.7760  1438.   169.  15.24   340.  1158. 130.58        1.8288
0006700     0.7760  1565.   573.  15.24   335.  1158. 130.58        1.8288
0006800     0.7760  1569.   733.  15.24   335.  1158. 130.58        1.8288
0007120     0.1300 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.1300 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.1300 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.1300 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.7650  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.3558  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.3557  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.3558  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.3557 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.1660  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.7390  -844.   983.    5.0   457.    30.   460.   186.
0012020     1.7120  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.1840   983.   258.    5.0   335.    30.   352.   112.
0014120     0.1588 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.1587 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.1588 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.1587 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.3460   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0880  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.1440  1509.   387.    5.0   320.    30.   925.     4.
```

```
2EAGLE MTN - SHORTZ - NOX - PROPOSED - NO MITIGATION - COARSE GRID - 24H AVG

  00  00 278  36  24   0 370
      0   0  00        3   1   0
   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4
   -5973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4
   -4973.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4573.4
   -4573.4   -4573.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4
   -4373.4   -4173.4   -4173.4   -4173.4   -3973.4   -3973.4   -3973.4   -3973.4
   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3773.4
   -3773.4   -3773.4   -3773.4   -3773.4   -3573.4   -3573.4   -3573.4   -3373.4
   -3373.4   -3373.4   -3273.4   -3273.4   -3273.4   -3173.4   -3173.4   -3173.4
   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4
   -2973.4   -2973.4   -2973.4   -2973.4   -2773.4   -2773.4   -2773.4   -2573.4
   -2573.4   -2573.4   -2373.4   -2373.4   -2373.4   -2173.4   -2173.4   -2173.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1773.4
   -1773.4   -1773.4   -1773.4   -1773.4   -1773.4   -1573.4   -1573.4   -1573.4
   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4
   -1373.4   -1373.4   -1373.4   -1173.4   -1173.4   -1173.4   -1173.4   -1173.4
   -1173.4   -1173.4    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4
    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4    -773.4    -773.4
    -773.4    -773.4    -773.4    -573.4    -573.4    -573.4    -573.4    -573.4
    -373.4    -373.4    -373.4    -373.4    -373.4    -373.4    -173.4    -173.4
    -173.4      26.6      26.6      26.6      26.6      26.6      26.6      26.6
      26.6      26.6      26.6      26.6      26.6     226.6     226.6     226.6
     426.6     426.6     426.6     426.6     626.6     626.6     626.6     826.6
     826.6     826.6    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6
    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6    1226.6    1226.6
    1226.6    1426.6    1426.6    1426.6    1426.6    1626.6    1626.6    1626.6
    1626.6    1626.6    1626.6    1626.6    1626.6    1626.6    1826.6    1826.6
    1826.6    1826.6    2026.6    2026.6    2026.6    2026.6    2026.6    2037.0
    2026.6    2026.6    2026.6    2026.6    2026.6    2026.6    2226.6    2226.6
    2226.6    2226.6    2226.6    2226.6    2426.6    2426.6    2426.6    2426.6
    2426.6    2426.6    2626.6    2626.6    2626.6    2626.6    2626.6    2626.6
    2626.6    2626.6    2626.6    2626.6    2626.6    2262.0    2626.6    2826.6
    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6
    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6
    3026.6    3026.6    3226.6    3226.6    3226.6    3226.6
   -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
    5610.0   -2390.0   -1390.0    -390.0    1610.0    2610.0    3610.0    4610.0
    5610.0     410.0     610.0     810.0    1010.0    1210.0    1210.0     410.0
    1210.0    4810.0      10.0     210.0     410.0    1410.0    1610.0    1610.0
    4810.0      10.0    1610.0    4810.0   -2390.0   -1390.0    -390.0      10.0
     610.0    1610.0    2610.0    3610.0    4610.0    4810.0    5610.0      10.0
    1610.0    1810.0    2010.0    4810.0      10.0    2010.0    4810.0      10.0
    2010.0    4810.0    2010.0    2210.0    2410.0      10.0    2410.0    4810.0
   -2390.0   -1390.0    -390.0      10.0     610.0    1610.0    2410.0    2610.0
    3610.0    4610.0    4810.0    5610.0      10.0    2410.0    4810.0      10.0
    2410.0    4810.0      10.0    2410.0    4810.0      10.0    2410.0    4810.0
   -2390.0   -1390.0    -390.0    -190.0      10.0     210.0     410.0     610.0
    1610.0    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0
    -590.0     210.0     410.0    2410.0    4810.0   -1190.0    -990.0    -790.0
    -590.0    -390.0    -190.0      10.0     210.0     410.0    2410.0    4810.0
   -1190.0    2410.0    4810.0   -1190.0    -990.0    -790.0    -590.0    -390.0
    2410.0    4810.0   -2390.0   -1390.0    -390.0    -190.0     610.0    1610.0
    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -190.0    2010.0
    2210.0    2410.0    4810.0    -190.0    2010.0    2210.0    2410.0    4810.0
    -390.0    -190.0    2010.0    2210.0    2410.0    4810.0    -390.0    2410.0
    4810.0   -2390.0   -1390.0    -590.0    -390.0     610.0    1610.0    2410.0
    2610.0    3610.0    4610.0    4810.0    5610.0    -590.0    2410.0    4810.0
    -790.0    -590.0    2410.0    4810.0    -790.0    2410.0    4810.0    -790.0
    2410.0    4810.0   -2390.0   -1390.0    -790.0    -390.0     610.0    1610.0
    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0    2410.0
    4810.0    -990.0    -790.0    2410.0    4810.0   -1190.0    -990.0    1610.0
    1810.0    2010.0    2210.0    2410.0    4810.0    5010.0   -1390.0   -1190.0
    1610.0    5010.0   -2390.0   -1390.0    -390.0     610.0    1410.0    1231.0
    1610.0    2610.0    3610.0    4610.0    5010.0    5610.0   -1590.0     610.0
     810.0    1210.0    1410.0    5010.0   -1590.0     410.0     610.0     810.0
    1210.0    5010.0   -1590.0   -1390.0    -390.0    -190.0      10.0     210.0
     410.0     610.0     810.0    1010.0    1210.0     433.0    5010.0   -1390.0
   -1190.0    -990.0    -790.0    -590.0    -390.0    -190.0      10.0    5010.0
   -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
    5010.0    5610.0    5010.0    5210.0    5610.0    6010.0
     798.0     793.0     781.0     852.0     731.0     730.0     728.0     747.0
     625.0     797.0     731.0     652.0     771.0     792.0     904.0     858.0
     570.0     646.0     669.0     666.0     695.0     730.0     730.0     633.0
     722.0     853.0     609.0     554.0     583.0     694.0     756.0     756.0
     856.0     553.0     787.0     828.0     767.0     732.0     548.0     549.0
     722.4     773.0     875.0     914.0     954.0     838.0     686.0     549.0
     755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
     799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
     661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
     865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
     732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
     487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
     768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
     497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
     487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
     427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
     610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
     610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
     610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
     410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
     609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
     489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
     365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
     372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
     363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
     585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
     331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
     321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
     312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
     310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
     305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
     305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
     302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
     297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
     348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0001120     0.2483 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.2482 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.2483 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.2482 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     7.8400-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.3760  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.2410 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.7760 -4234.   227.  15.24   579.  1158. 130.58         1.8288
0006200     0.7760 -4123.   185.  15.24   549.  1158. 130.58         1.8288
0006300     0.7760 -2562.   354.  15.24   479.  1158. 130.58         1.8288
0006400     0.7760 -2434.   371.  15.24   472.  1158. 130.58         1.8288
0006500     0.7760  1318.   152.  15.24   351.  1158. 130.58         1.8288
0006600     0.7760  1438.   169.  15.24   340.  1158. 130.58         1.8288
0006700     0.7760  1565.   573.  15.24   335.  1158. 130.58         1.8288
0006800     0.7760  1569.   733.  15.24   335.  1158. 130.58         1.8288
0007120     0.0545 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0545 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0545 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0545 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.3220  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.1495  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.1495  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.1495  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.1495 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0700  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.3100  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.7180  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0770   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0667 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0668 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0667 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0668 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.1480   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0380  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0610  1509.   387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - NOx - PROPOSED - NO MITIGATION - FINE GRID "B2" - 24H AVG

  00  00  31  36  24    0 370
     0   0  00       3   1   0
    2326.6    2426.6    2526.6    2626.6    2262.0    2262.0    2326.6    2426.6
    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6    2626.6    2226.6
    2326.6    2426.6    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6
    2626.6
     410.0     410.0     410.0     410.0     433.0     510.0     510.0     510.0
     510.0     510.0     610.0     610.0     610.0     610.0     610.0     710.0
     710.0     710.0     710.0     710.0     810.0     810.0     810.0     810.0
     810.0
     310.0     307.0     305.0     305.0     310.9     312.0     309.0     304.0
     304.0     305.0     311.0     308.0     304.0     305.0     305.0     311.0
     308.0     306.0     304.0     305.0     310.0     307.0     305.0     304.0
     305.0
   .683          366.7
0001120     0.2483 2145.2  543.6    5.0   312.    111.    300.    164.
0001220     0.2482 2227.9  255.2    5.0   312.    111.    300.    164.
0001320     0.2483 2062.6  832.0    5.0   312.    111.    300.    164.
0001420     0.2482 1979.8 1120.4    5.0   312.    111.    300.    164.
0002020     7.8400-1039.3 1105.0    5.0   457.    380.    650.     90.
0003020     0.3760  0000.  0000.    5.0   457.    200.    380.     90.
0004020     0.2410 1478.8 -102.7    5.0   366.    140.    360.     90.
0005020     0.0000  0000.  0000.    4.0   457.     10.     50.     90.
0006100     0.7760 -4234.   227.  15.24   579.   1158. 130.58           1.8288
0006200     0.7760 -4123.   185.  15.24   549.   1158. 130.58           1.8288
0006300     0.7760 -2562.   354.  15.24   479.   1158. 130.58           1.8288
0006400     0.7760 -2434.   371.  15.24   472.   1158. 130.58           1.8288
0006500     0.7760  1318.   152.  15.24   351.   1158. 130.58           1.8288
0006600     0.7760  1438.   169.  15.24   340.   1158. 130.58           1.8288
0006700     0.7760  1565.   573.  15.24   335.   1158. 130.58           1.8288
0006800     0.7760  1569.   733.  15.24   335.   1158. 130.58           1.8288
0007120     0.0545 1799.0  943.0    5.0   320.     30.  111.5    249.
0007220     0.0545 1903.1  982.9    5.0   320.     30.  111.5    249.
0007320     0.0545 1694.6  903.0    5.0   320.     30.  111.5    249.
0007420     0.0545 1590.9  863.1    5.0   320.     30.  111.5    249.
0008020     0.3220  1380.  1360.    5.0   381.     30.  1083.    342.
0009120     0.1495  551.3 1636.1    5.0   457.     30.  452.3    250.
0009220     0.1495  919.8 1770.2    5.0   457.     30.  452.3    250.
0009320     0.1495  182.7 1501.9    5.0   457.     30.  452.3    250.
0009420     0.1495 -185.8 1367.8    5.0   457.     30.  452.3    250.
0010020     0.0700  -655.  1231.    5.0   518.     30.   330.    263.
0011020     0.3100  -844.   983.    5.0   457.     30.   460.    186.
0012020     0.7180  -030.   536.    5.0   396.     30.  1733.    105.
0013020     0.0770   983.   258.    5.0   335.     30.   352.    112.
0014120     0.0667 1389.3  598.1    5.0   366.     30.  191.5     31.
0014220     0.0668 1487.9  762.2    5.0   366.     30.  191.5     31.
0014320     0.0667 1290.7  433.9    5.0   366.     30.  191.5     31.
0014420     0.0668 1192.1  269.8    5.0   366.     30.  191.5     31.
0015020     0.1480   268.   298.    5.0   411.     30.  1093.    268.
0016020     0.0380  -139.   139.    5.0   457.     30.   393.    135.
0017020     0.0610  1509.   387.    5.0   320.     30.   925.      4.
```

```
2EAGLE MTN - SHORTZ - PM10 - PROPOSED - WITH MITIGATION - COARSE GRID - 24H AVG

  00  00 278  36  24    0 370
       0   0  00        3   1   0
   -5973.4    -5973.4    -5973.4    -5973.4    -5973.4    -5973.4    -5973.4    -5973.4
   -5973.4    -4973.4    -4973.4    -4973.4    -4973.4    -4973.4    -4973.4    -4973.4
   -4973.4    -4773.4    -4773.4    -4773.4    -4773.4    -4773.4    -4773.4    -4573.4
   -4573.4    -4573.4    -4373.4    -4373.4    -4373.4    -4373.4    -4373.4    -4373.4
   -4373.4    -4173.4    -4173.4    -4173.4    -3973.4    -3973.4    -3973.4    -3973.4
   -3973.4    -3973.4    -3973.4    -3973.4    -3973.4    -3973.4    -3973.4    -3773.4
   -3773.4    -3773.4    -3773.4    -3773.4    -3573.4    -3573.4    -3573.4    -3373.4
   -3373.4    -3373.4    -3273.4    -3273.4    -3273.4    -3173.4    -3173.4    -3173.4
   -2973.4    -2973.4    -2973.4    -2973.4    -2973.4    -2973.4    -2973.4    -2973.4
   -2973.4    -2973.4    -2973.4    -2973.4    -2773.4    -2773.4    -2773.4    -2573.4
   -2573.4    -2573.4    -2373.4    -2373.4    -2373.4    -2173.4    -2173.4    -2173.4
   -1973.4    -1973.4    -1973.4    -1973.4    -1973.4    -1973.4    -1973.4    -1973.4
   -1973.4    -1973.4    -1973.4    -1973.4    -1973.4    -1973.4    -1973.4    -1773.4
   -1773.4    -1773.4    -1773.4    -1773.4    -1773.4    -1573.4    -1573.4    -1573.4
   -1573.4    -1573.4    -1573.4    -1573.4    -1573.4    -1573.4    -1573.4    -1573.4
   -1373.4    -1373.4    -1373.4    -1173.4    -1173.4    -1173.4    -1173.4    -1173.4
   -1173.4    -1173.4     -973.4     -973.4     -973.4     -973.4     -973.4     -973.4
    -973.4     -973.4     -973.4     -973.4     -973.4     -973.4     -773.4     -773.4
    -773.4     -773.4     -773.4     -573.4     -573.4     -573.4     -573.4     -573.4
    -373.4     -373.4     -373.4     -373.4     -373.4     -373.4     -173.4     -173.4
    -173.4       26.6       26.6       26.6       26.6       26.6       26.6       26.6
      26.6       26.6       26.6       26.6       26.6      226.6      226.6      226.6
     426.6      426.6      426.6      426.6      626.6      626.6      626.6      826.6
     826.6      826.6     1026.6     1026.6     1026.6     1026.6     1026.6     1026.6
    1026.6     1026.6     1026.6     1026.6     1026.6     1026.6     1226.6     1226.6
    1226.6     1426.6     1426.6     1426.6     1426.6     1626.6     1626.6     1626.6
    1626.6     1626.6     1626.6     1626.6     1626.6     1626.6     1826.6     1826.6
    1826.6     1826.6     2026.6     2026.6     2026.6     2026.6     2026.6     2037.0
    2026.6     2026.6     2026.6     2026.6     2026.6     2026.6     2226.6     2226.6
    2226.6     2226.6     2226.6     2226.6     2426.6     2426.6     2426.6     2426.6
    2426.6     2426.6     2626.6     2626.6     2626.6     2626.6     2626.6     2626.6
    2626.6     2626.6     2626.6     2626.6     2626.6     2262.0     2626.6     2826.6
    2826.6     2826.6     2826.6     2826.6     2826.6     2826.6     2826.6     2826.6
    3026.6     3026.6     3026.6     3026.6     3026.6     3026.6     3026.6     3026.6
    3026.6     3026.6     3226.6     3226.6     3226.6     3226.6
   -2390.0    -1390.0     -390.0      610.0     1610.0     2610.0     3610.0     4610.0
    5610.0    -2390.0    -1390.0     -390.0     1610.0     2610.0     3610.0     4610.0
    5610.0      410.0      610.0      810.0     1010.0     1210.0     1210.0      410.0
    1210.0     4810.0       10.0      210.0      410.0     1410.0     1610.0     1610.0
    4810.0       10.0     1610.0     4810.0    -2390.0    -1390.0     -390.0       10.0
     610.0     1610.0     2610.0     3610.0     4610.0     4810.0     5610.0       10.0
    1610.0     1810.0     2010.0     4810.0       10.0     2010.0     4810.0       10.0
    2010.0     4810.0     2010.0     2210.0     2410.0       10.0     2410.0     4810.0
   -2390.0    -1390.0     -390.0       10.0      610.0     1610.0     2410.0     2610.0
    3610.0     4610.0     4810.0     5610.0       10.0     2410.0     4810.0       10.0
    2410.0     4810.0       10.0     2410.0     4810.0       10.0     2410.0     4810.0
   -2390.0    -1390.0     -390.0     -190.0       10.0      210.0      410.0      610.0
    1610.0     2410.0     2610.0     3610.0     4610.0     4810.0     5610.0     -790.0
    -590.0      210.0      410.0     2410.0     4810.0    -1190.0     -990.0     -790.0
    -590.0     -390.0     -190.0       10.0      210.0      410.0     2410.0     4810.0
   -1190.0     2410.0     4810.0    -1190.0     -990.0     -790.0     -590.0     -390.0
    2410.0     4810.0    -2390.0    -1390.0     -390.0     -190.0      610.0     1610.0
    2410.0     2610.0     3610.0     4610.0     4810.0     5610.0     -190.0     2010.0
    2210.0     2410.0     4810.0     -190.0     2010.0     2210.0     2410.0     4810.0
    -390.0     -190.0     2010.0     2210.0     2410.0     4810.0     -390.0     2410.0
    4810.0    -2390.0    -1390.0     -590.0     -390.0      610.0     1610.0     2410.0
    2610.0     3610.0     4610.0     4810.0     5610.0     -590.0     2410.0     4810.0
    -790.0     -590.0     2410.0     4810.0     -790.0     2410.0     4810.0     -790.0
    2410.0     4810.0    -2390.0    -1390.0     -790.0     -390.0      610.0     1610.0
    2410.0     2610.0     3610.0     4610.0     4810.0     5610.0     -790.0     2410.0
    4810.0     -990.0     -790.0     2410.0     4810.0    -1190.0     -990.0     1610.0
    1810.0     2010.0     2210.0     2410.0     4810.0     5010.0    -1390.0    -1190.0
    1610.0     5010.0    -2390.0    -1390.0     -390.0      610.0     1410.0     1231.0
    1610.0     2610.0     3610.0     4610.0     5010.0     5610.0    -1590.0      610.0
     810.0     1210.0     1410.0     5010.0    -1590.0      410.0      610.0      810.0
    1210.0     5010.0    -1590.0    -1390.0     -390.0     -190.0       10.0      210.0
     410.0      610.0      810.0     1010.0     1210.0      433.0     5010.0    -1390.0
   -1190.0     -990.0     -790.0     -590.0     -390.0     -190.0       10.0     5010.0
   -2390.0    -1390.0     -390.0      610.0     1610.0     2610.0     3610.0     4610.0
    5010.0     5610.0     5010.0     5210.0     5610.0     6010.0
     798.0      793.0      781.0      852.0      731.0      730.0      728.0      747.0
     625.0      797.0      731.0      652.0      771.0      792.0      904.0      858.0
     570.0      646.0      669.0      666.0      695.0      730.0      730.0      633.0
     722.0      853.0      609.0      554.0      583.0      694.0      756.0      756.0
     856.0      553.0      787.0      828.0      767.0      732.0      548.0      549.0
     722.4      773.0      875.0      914.0      954.0      838.0      686.0      549.0
    755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
    799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
    661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
    865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
    732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
    487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
    768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
    497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
    487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
    427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
    610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
    610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
    610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
    410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
    609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
    489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
    365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
    372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
    363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
    585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
    331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
    321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
    312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
    310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
    305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
    305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
    302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
    297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
    348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0001120      0.0025 2145.2  543.6    5.0  312.   111.   300.   164.
0001220      0.0025 2227.9  255.2    5.0  312.   111.   300.   164.
0001320      0.0025 2062.6  832.0    5.0  312.   111.   300.   164.
0001420      0.0025 1979.8 1120.4    5.0  312.   111.   300.   164.
0002020      0.5940-1039.3 1105.0    5.0  457.   380.   650.    90.
0003020      0.1890  0000.  0000.    5.0  457.   200.   380.    90.
0004020      0.0440 1478.8 -102.7    5.0  366.   140.   360.    90.
0005020      0.5000  0000.  0000.    4.0  457.    10.    50.    90.
0006100      0.4434 -4234.   227.  15.24  579.  1158. 130.58         1.8288
0006200      0.4434 -4123.   185.  15.24  549.  1158. 130.58         1.8288
0006300      0.4434 -2562.   354.  15.24  479.  1158. 130.58         1.8288
0006400      0.4434 -2434.   371.  15.24  472.  1158. 130.58         1.8288
0006500      0.4434  1318.   152.  15.24  351.  1158. 130.58         1.8288
0006600      0.4434  1438.   169.  15.24  340.  1158. 130.58         1.8288
0006700      0.4434  1565.   573.  15.24  335.  1158. 130.58         1.8288
0006800      0.4434  1569.   733.  15.24  335.  1158. 130.58         1.8288
0007120      0.0313 1799.0  943.0    5.0  320.    30.  111.5   249.
0007220      0.0313 1903.1  982.9    5.0  320.    30.  111.5   249.
0007320      0.0313 1694.6  903.0    5.0  320.    30.  111.5   249.
0007420      0.0313 1590.9  863.1    5.0  320.    30.  111.5   249.
0008020      0.1800  1380.  1360.    5.0  381.    30.  1083.   342.
0009120      0.0838  551.3 1636.1    5.0  457.    30.  452.3   250.
0009220      0.0838  919.8 1770.2    5.0  457.    30.  452.3   250.
0009320      0.0838  182.7 1501.9    5.0  457.    30.  452.3   250.
0009420      0.0838 -185.8 1367.8    5.0  457.    30.  452.3   250.
0010020      0.0390  -655.  1231.    5.0  518.    30.   330.   263.
0011020      0.1630  -844.   983.    5.0  457.    30.   460.   186.
0012020      0.3160  -030.   536.    5.0  396.    30.  1733.   105.
0013020      0.0340   983.   258.    5.0  335.    30.   352.   112.
0014120      0.0375 1389.3  598.1    5.0  366.    30.  191.5    31.
0014220      0.0375 1487.9  762.2    5.0  366.    30.  191.5    31.
0014320      0.0375 1290.7  433.9    5.0  366.    30.  191.5    31.
0014420      0.0375 1192.1  269.8    5.0  366.    30.  191.5    31.
0015020      0.0000   268.   298.    5.0  411.    30.  1093.   268.
0016020      0.0000  -139.   139.    5.0  457.    30.   393.   135.
0017020      0.0290  1509.   387.    5.0  320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - PM10 - PROPOSED - WITH MITIGATION - FINE GRID "B" - 24H AVG

  00  00  46  36  24   0 370
       0   0  00       3   1   0
    2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2037.0    2026.6
    2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2026.6    2126.6
    2226.6    2326.6    2426.6    2526.6    2626.6    2326.6    2426.6    2526.6
    2626.6    2262.0    2262.0    2326.6    2426.6    2526.6    2626.6    2226.6
    2326.6    2426.6    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6
    2626.6    2226.6    2326.6    2426.6    2526.6    2626.6
    1210.0    1210.0    1210.0    1210.0    1210.0    1210.0    1231.0    1310.0
    1310.0    1310.0    1310.0    1310.0    1310.0    1310.0    1410.0    1410.0
    1410.0    1410.0    1410.0    1410.0    1410.0     410.0     410.0     410.0
     410.0     433.0     510.0     510.0     510.0     510.0     510.0     610.0
     610.0     610.0     610.0     610.0     710.0     710.0     710.0     710.0
     710.0     810.0     810.0     810.0     810.0     810.0
     308.0     305.0     305.0     305.0     305.0     305.0     310.9     313.0
     307.0     305.0     305.0     305.0     305.0     305.0     313.0     308.0
     305.0     305.0     305.0     305.0     305.0     310.0     307.0     305.0
     305.0     310.9     312.0     309.0     304.0     304.0     305.0     311.0
     308.0     304.0     305.0     305.0     311.0     308.0     306.0     304.0
     305.0     310.0     307.0     305.0     304.0     305.0
   .683            366.7
0001120     0.0025 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0025 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0025 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0025 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     0.5940-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.1890  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.0440 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.5000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.4434 -4234.   227.  15.24   579.  1158. 130.58         1.8288
0006200     0.4434 -4123.   185.  15.24   549.  1158. 130.58         1.8288
0006300     0.4434 -2562.   354.  15.24   479.  1158. 130.58         1.8288
0006400     0.4434 -2434.   371.  15.24   472.  1158. 130.58         1.8288
0006500     0.4434  1318.   152.  15.24   351.  1158. 130.58         1.8288
0006600     0.4434  1438.   169.  15.24   340.  1158. 130.58         1.8288
0006700     0.4434  1565.   573.  15.24   335.  1158. 130.58         1.8288
0006800     0.4434  1569.   733.  15.24   335.  1158. 130.58         1.8288
0007120     0.0313 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0313 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0313 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0313 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.1800  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.0838  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.0838  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.0838  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.0838 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0390  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.1630  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.3160  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0340   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0375 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0375 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0375 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0375 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0000   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0000  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0290  1509.   387.    5.0   320.    30.   925.     4.
```

```
2EAGLE MTN - SHORTZ - PM10 - PROPOSED - NO MITIGATION - COARSE GRID - 24H AVG

  00  00 278  36  24    0 370
     0   0  00          3   1   0
    -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4
    -5973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4
    -4973.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4573.4
    -4573.4     -4573.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4
    -4373.4     -4173.4     -4173.4     -4173.4     -3973.4     -3973.4     -3973.4     -3973.4
    -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3773.4
    -3773.4     -3773.4     -3773.4     -3773.4     -3573.4     -3573.4     -3573.4     -3373.4
    -3373.4     -3373.4     -3273.4     -3273.4     -3273.4     -3173.4     -3173.4     -3173.4
    -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4
    -2973.4     -2973.4     -2973.4     -2973.4     -2773.4     -2773.4     -2773.4     -2573.4
    -2573.4     -2573.4     -2373.4     -2373.4     -2373.4     -2173.4     -2173.4     -2173.4
    -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4
    -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1773.4
    -1773.4     -1773.4     -1773.4     -1773.4     -1773.4     -1573.4     -1573.4     -1573.4
    -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4
    -1373.4     -1373.4     -1373.4     -1173.4     -1173.4     -1173.4     -1173.4     -1173.4
    -1173.4     -1173.4      -973.4      -973.4      -973.4      -973.4      -973.4      -973.4
     -973.4      -973.4      -973.4      -973.4      -973.4      -973.4      -773.4      -773.4
     -773.4      -773.4      -773.4      -573.4      -573.4      -573.4      -573.4      -573.4
     -373.4      -373.4      -373.4      -373.4      -373.4      -373.4      -173.4      -173.4
     -173.4        26.6        26.6        26.6        26.6        26.6        26.6        26.6
       26.6        26.6        26.6        26.6        26.6       226.6       226.6       226.6
      426.6       426.6       426.6       426.6       626.6       626.6       626.6       826.6
      826.6       826.6      1026.6      1026.6      1026.6      1026.6      1026.6      1026.6
     1026.6      1026.6      1026.6      1026.6      1026.6      1026.6      1226.6      1226.6
     1226.6      1426.6      1426.6      1426.6      1426.6      1626.6      1626.6      1626.6
     1626.6      1626.6      1626.6      1626.6      1626.6      1626.6      1826.6      1826.6
     1826.6      1826.6      2026.6      2026.6      2026.6      2026.6      2026.6      2037.0
     2026.6      2026.6      2026.6      2026.6      2026.6      2026.6      2226.6      2226.6
     2226.6      2226.6      2226.6      2226.6      2426.6      2426.6      2426.6      2426.6
     2426.6      2426.6      2626.6      2626.6      2626.6      2626.6      2626.6      2626.6
     2626.6      2626.6      2626.6      2626.6      2626.6      2262.0      2626.6      2826.6
     2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6
     3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6
     3026.6      3026.6      3226.6      3226.6      3226.6      3226.6
    -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
     5610.0     -2390.0     -1390.0      -390.0      1610.0      2610.0      3610.0      4610.0
     5610.0       410.0       610.0       810.0      1010.0      1210.0      1210.0       410.0
     1210.0      4810.0        10.0       210.0       410.0      1410.0      1610.0      1610.0
     4810.0        10.0      1610.0      4810.0     -2390.0     -1390.0      -390.0        10.0
      610.0      1610.0      2610.0      3610.0      4610.0      4810.0      5610.0        10.0
     1610.0      1810.0      2010.0      4810.0        10.0      2010.0      4810.0        10.0
     2010.0      4810.0      2010.0      2210.0      2410.0        10.0      2410.0      4810.0
    -2390.0     -1390.0      -390.0        10.0       610.0      1610.0      2410.0      2610.0
     3610.0      4610.0      4810.0      5610.0        10.0      2410.0      4810.0        10.0
     2410.0      4810.0        10.0      2410.0      4810.0        10.0      2410.0      4810.0
    -2390.0     -1390.0      -390.0      -190.0        10.0       210.0       410.0       610.0
     1610.0      2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0
     -590.0       210.0       410.0      2410.0      4810.0     -1190.0      -990.0      -790.0
     -590.0      -390.0      -190.0        10.0       210.0       410.0      2410.0      4810.0
    -1190.0      2410.0      4810.0     -1190.0      -990.0      -790.0      -590.0      -390.0
     2410.0      4810.0     -2390.0     -1390.0      -390.0      -190.0       610.0      1610.0
     2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -190.0      2010.0
     2210.0      2410.0      4810.0      -190.0      2010.0      2210.0      2410.0      4810.0
     -390.0      -190.0      2010.0      2210.0      2410.0      4810.0      -390.0      2410.0
     4810.0     -2390.0     -1390.0      -590.0      -390.0       610.0      1610.0      2410.0
     2610.0      3610.0      4610.0      4810.0      5610.0      -590.0      2410.0      4810.0
     -790.0      -590.0      2410.0      4810.0      -790.0      2410.0      4810.0      -790.0
     2410.0      4810.0     -2390.0     -1390.0      -790.0      -390.0       610.0      1610.0
     2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0      2410.0
     4810.0      -990.0      -790.0      2410.0      4810.0     -1190.0      -990.0      1610.0
     1810.0      2010.0      2210.0      2410.0      4810.0      5010.0     -1390.0     -1190.0
     1610.0      5010.0     -2390.0     -1390.0      -390.0       610.0      1410.0      1231.0
     1610.0      2610.0      3610.0      4610.0      5010.0      5610.0     -1590.0       610.0
      810.0      1210.0      1410.0      5010.0     -1590.0       410.0       610.0       810.0
     1210.0      5010.0     -1590.0     -1390.0      -390.0      -190.0        10.0       210.0
      410.0       610.0       810.0      1010.0      1210.0       433.0      5010.0     -1390.0
    -1190.0      -990.0      -790.0      -590.0      -390.0      -190.0        10.0      5010.0
    -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
     5010.0      5610.0      5010.0      5210.0      5610.0      6010.0
      798.0       793.0       781.0       852.0       731.0       730.0       728.0       747.0
      625.0       797.0       731.0       652.0       771.0       792.0       904.0       858.0
      570.0       646.0       669.0       666.0       695.0       730.0       730.0       633.0
      722.0       853.0       609.0       554.0       583.0       694.0       756.0       756.0
      856.0       553.0       787.0       828.0       767.0       732.0       548.0       549.0
      722.4       773.0       875.0       914.0       954.0       838.0       686.0       549.0
    755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
    799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
    661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
    865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
    732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
    487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
    768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
    497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
    487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
    427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
    610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
    610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
    610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
    410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
    609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
    489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
    365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
    372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
    363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
    585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
    331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
    321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
    312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
    310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
    305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
    305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
    302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
    297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
    348.0     372.0     338.0     345.0     362.0     373.0
  .683          366.7
0001120     0.0193 2145.2  543.6   5.0  312.   111.   300.   164.
0001220     0.0193 2227.9  255.2   5.0  312.   111.   300.   164.
0001320     0.0193 2062.6  832.0   5.0  312.   111.   300.   164.
0001420     0.0193 1979.8 1120.4   5.0  312.   111.   300.   164.
0002020     0.9030-1039.3 1105.0   5.0  457.   380.   650.    90.
0003020     0.2070  0000.  0000.   5.0  457.   200.   380.    90.
0004020     0.0630 1478.8 -102.7   5.0  366.   140.   360.    90.
0005020     0.5000  0000.  0000.   4.0  457.    10.    50.    90.
0006100     0.4434 -4234.   227. 15.24  579.  1158. 130.58        1.8288
0006200     0.4434 -4123.   185. 15.24  549.  1158. 130.58        1.8288
0006300     0.4434 -2562.   354. 15.24  479.  1158. 130.58        1.8288
0006400     0.4434 -2434.   371. 15.24  472.  1158. 130.58        1.8288
0006500     0.4434  1318.   152. 15.24  351.  1158. 130.58        1.8288
0006600     0.4434  1438.   169. 15.24  340.  1158. 130.58        1.8288
0006700     0.4434  1565.   573. 15.24  335.  1158. 130.58        1.8288
0006800     0.4434  1569.   733. 15.24  335.  1158. 130.58        1.8288
0007120     0.0328 1799.0  943.0   5.0  320.    30.  111.5   249.
0007220     0.0327 1903.1  982.9   5.0  320.    30.  111.5   249.
0007320     0.0328 1694.6  903.0   5.0  320.    30.  111.5   249.
0007420     0.0327 1590.9  863.1   5.0  320.    30.  111.5   249.
0008020     0.1890  1380.  1360.   5.0  381.    30.  1083.   342.
0009120     0.0878  551.3 1636.1   5.0  457.    30.  452.3   250.
0009220     0.0877  919.8 1770.2   5.0  457.    30.  452.3   250.
0009320     0.0878  182.7 1501.9   5.0  457.    30.  452.3   250.
0009420     0.0877 -185.8 1367.8   5.0  457.    30.  452.3   250.
0010020     0.0410  -655.  1231.   5.0  518.    30.   330.   263.
0011020     0.1990  -844.   983.   5.0  457.    30.   460.   186.
0012020     0.4910  -030.   536.   5.0  396.    30.  1733.   105.
0013020     0.0530   983.   258.   5.0  335.    30.   352.   112.
0014120     0.0393 1389.3  598.1   5.0  366.    30.  191.5    31.
0014220     0.0392 1487.9  762.2   5.0  366.    30.  191.5    31.
0014320     0.0393 1290.7  433.9   5.0  366.    30.  191.5    31.
0014420     0.0392 1192.1  269.8   5.0  366.    30.  191.5    31.
0015020     0.1090   268.   298.   5.0  411.    30.  1093.   268.
0016020     0.0280  -139.   139.   5.0  457.    30.   393.   135.
0017020     0.0290  1509.   387.   5.0  320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - PM10 - PROPOSED - NO MITIGATION - FINE GRID "B" - 24H AVG

 00  00  46  36  24   0 370
     0   0  00       3   1   0
   2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2037.0    2026.6
   2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2026.6    2126.6
   2226.6    2326.6    2426.6    2526.6    2626.6    2326.6    2426.6    2526.6
   2626.6    2262.0    2262.0    2326.6    2426.6    2526.6    2626.6    2226.6
   2326.6    2426.6    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6
   2626.6    2226.6    2326.6    2426.6    2526.6    2626.6
   1210.0    1210.0    1210.0    1210.0    1210.0    1210.0    1231.0    1310.0
   1310.0    1310.0    1310.0    1310.0    1310.0    1310.0    1410.0    1410.0
   1410.0    1410.0    1410.0    1410.0    1410.0     410.0     410.0     410.0
    410.0     433.0     510.0     510.0     510.0     510.0     510.0     610.0
    610.0     610.0     610.0     610.0     710.0     710.0     710.0     710.0
    710.0     810.0     810.0     810.0     810.0     810.0
    308.0     305.0     305.0     305.0     305.0     305.0     310.9     313.0
    307.0     305.0     305.0     305.0     305.0     305.0     313.0     308.0
    305.0     305.0     305.0     305.0     305.0     310.0     307.0     305.0
    305.0     310.9     312.0     309.0     304.0     304.0     305.0     311.0
    308.0     304.0     305.0     305.0     311.0     308.0     306.0     304.0
    305.0     310.0     307.0     305.0     304.0     305.0
  .683           366.7
0001120      0.0193 2145.2  543.6    5.0   312.    111.    300.    164.
0001220      0.0193 2227.9  255.2    5.0   312.    111.    300.    164.
0001320      0.0193 2062.6  832.0    5.0   312.    111.    300.    164.
0001420      0.0193 1979.8 1120.4    5.0   312.    111.    300.    164.
0002020      0.9030-1039.3 1105.0    5.0   457.    380.    650.     90.
0003020      0.2070  0000.  0000.    5.0   457.    200.    380.     90.
0004020      0.0630 1478.8 -102.7    5.0   366.    140.    360.     90.
0005020      0.5000  0000.  0000.    4.0   457.     10.     50.     90.
0006100      0.4434 -4234.   227.  15.24   579.   1158. 130.58          1.8288
0006200      0.4434 -4123.   185.  15.24   549.   1158. 130.58          1.8288
0006300      0.4434 -2562.   354.  15.24   479.   1158. 130.58          1.8288
0006400      0.4434 -2434.   371.  15.24   472.   1158. 130.58          1.8288
0006500      0.4434  1318.   152.  15.24   351.   1158. 130.58          1.8288
0006600      0.4434  1438.   169.  15.24   340.   1158. 130.58          1.8288
0006700      0.4434  1565.   573.  15.24   335.   1158. 130.58          1.8288
0006800      0.4434  1569.   733.  15.24   335.   1158. 130.58          1.8288
0007120      0.0328 1799.0  943.0    5.0   320.     30.   111.5    249.
0007220      0.0327 1903.1  982.9    5.0   320.     30.   111.5    249.
0007320      0.0328 1694.6  903.0    5.0   320.     30.   111.5    249.
0007420      0.0327 1590.9  863.1    5.0   320.     30.   111.5    249.
0008020      0.1890  1380.  1360.    5.0   381.     30.   1083.    342.
0009120      0.0878  551.3 1636.1    5.0   457.     30.   452.3    250.
0009220      0.0877  919.8 1770.2    5.0   457.     30.   452.3    250.
0009320      0.0878  182.7 1501.9    5.0   457.     30.   452.3    250.
0009420      0.0877 -185.8 1367.8    5.0   457.     30.   452.3    250.
0010020      0.0410  -655.  1231.    5.0   518.     30.    330.    263.
0011020      0.1990  -844.   983.    5.0   457.     30.    460.    186.
0012020      0.4910  -030.   536.    5.0   396.     30.   1733.    105.
0013020      0.0530   983.   258.    5.0   335.     30.    352.    112.
0014120      0.0393 1389.3  598.1    5.0   366.     30.   191.5     31.
0014220      0.0392 1487.9  762.2    5.0   366.     30.   191.5     31.
0014320      0.0393 1290.7  433.9    5.0   366.     30.   191.5     31.
0014420      0.0392 1192.1  269.8    5.0   366.     30.   191.5     31.
0015020      0.1090   268.   298.    5.0   411.     30.   1093.    268.
0016020      0.0280  -139.   139.    5.0   457.     30.    393.    135.
0017020      0.0290  1509.   387.    5.0   320.     30.    925.      4.
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2EAGLE MTN - SHORTZ - CO - PROPOSED - WITH MITIGATION - COARSE GRID - 1H AVG

  00  00 278  36  24    0 370
     0   0  00          3   1    0
  -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4
  -5973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4
  -4973.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4573.4
  -4573.4   -4573.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4
  -4373.4   -4173.4   -4173.4   -4173.4   -3973.4   -3973.4   -3973.4   -3973.4
  -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3773.4
  -3773.4   -3773.4   -3773.4   -3773.4   -3573.4   -3573.4   -3573.4   -3373.4
  -3373.4   -3373.4   -3273.4   -3273.4   -3273.4   -3173.4   -3173.4   -3173.4
  -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4
  -2973.4   -2973.4   -2973.4   -2973.4   -2773.4   -2773.4   -2773.4   -2573.4
  -2573.4   -2573.4   -2373.4   -2373.4   -2373.4   -2173.4   -2173.4   -2173.4
  -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4
  -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1773.4
  -1773.4   -1773.4   -1773.4   -1773.4   -1773.4   -1573.4   -1573.4   -1573.4
  -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4
  -1373.4   -1373.4   -1373.4   -1173.4   -1173.4   -1173.4   -1173.4   -1173.4
  -1173.4   -1173.4    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4
   -973.4    -973.4    -973.4    -973.4    -973.4    -973.4    -773.4    -773.4
   -773.4    -773.4    -773.4    -573.4    -573.4    -573.4    -573.4    -573.4
   -373.4    -373.4    -373.4    -373.4    -373.4    -373.4    -173.4    -173.4
   -173.4      26.6      26.6      26.6      26.6      26.6      26.6      26.6
     26.6      26.6      26.6      26.6      26.6     226.6     226.6     226.6
    426.6     426.6     426.6     426.6     626.6     626.6     626.6     826.6
    826.6     826.6    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6
   1026.6    1026.6    1026.6    1026.6    1026.6    1026.6    1226.6    1226.6
   1226.6    1426.6    1426.6    1426.6    1426.6    1626.6    1626.6    1626.6
   1626.6    1626.6    1626.6    1626.6    1626.6    1626.6    1826.6    1826.6
   1826.6    1826.6    2026.6    2026.6    2026.6    2026.6    2026.6    2037.0
   2026.6    2026.6    2026.6    2026.6    2026.6    2026.6    2226.6    2226.6
   2226.6    2226.6    2226.6    2226.6    2426.6    2426.6    2426.6    2426.6
   2426.6    2426.6    2626.6    2626.6    2626.6    2626.6    2626.6    2626.6
   2626.6    2626.6    2626.6    2626.6    2626.6    2262.0    2626.6    2826.6
   2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6
   3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6
   3026.6    3026.6    3226.6    3226.6    3226.6    3226.6
  -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
   5610.0   -2390.0   -1390.0    -390.0    1610.0    2610.0    3610.0    4610.0
   5610.0     410.0     610.0     810.0    1010.0    1210.0    1210.0     410.0
   1210.0    4810.0      10.0     210.0     410.0    1410.0    1610.0    1610.0
   4810.0      10.0    1610.0    4810.0   -2390.0   -1390.0    -390.0      10.0
    610.0    1610.0    2610.0    3610.0    4610.0    4810.0    5610.0      10.0
   1610.0    1810.0    2010.0    4810.0      10.0    2010.0    4810.0      10.0
   2010.0    4810.0    2010.0    2210.0    2410.0      10.0    2410.0    4810.0
  -2390.0   -1390.0    -390.0      10.0     610.0    1610.0    2410.0    2610.0
   3610.0    4610.0    4810.0    5610.0      10.0    2410.0    4810.0      10.0
   2410.0    4810.0      10.0    2410.0    4810.0      10.0    2410.0    4810.0
  -2390.0   -1390.0    -390.0    -190.0      10.0     210.0     410.0     610.0
   1610.0    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0
   -590.0     210.0     410.0    2410.0    4810.0   -1190.0    -990.0    -790.0
   -590.0    -390.0    -190.0      10.0     210.0     410.0    2410.0    4810.0
  -1190.0    2410.0    4810.0   -1190.0    -990.0    -790.0    -590.0    -390.0
   2410.0    4810.0   -2390.0   -1390.0    -390.0    -190.0     610.0    1610.0
   2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -190.0    2010.0
   2210.0    2410.0    4810.0    -190.0    2010.0    2210.0    2410.0    4810.0
   -390.0    -190.0    2010.0    2210.0    2410.0    4810.0    -390.0    2410.0
   4810.0   -2390.0   -1390.0    -590.0    -390.0     610.0    1610.0    2410.0
   2610.0    3610.0    4610.0    4810.0    5610.0    -590.0    2410.0    4810.0
   -790.0    -590.0    2410.0    4810.0    -790.0    2410.0    4810.0    -790.0
   2410.0    4810.0   -2390.0   -1390.0    -790.0    -390.0     610.0    1610.0
   2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0    2410.0
   4810.0    -990.0    -790.0    2410.0    4810.0   -1190.0    -990.0    1610.0
   1810.0    2010.0    2210.0    2410.0    4810.0    5010.0   -1390.0   -1190.0
   1610.0    5010.0   -2390.0   -1390.0    -390.0     610.0    1410.0    1231.0
   1610.0    2610.0    3610.0    4610.0    5010.0    5610.0   -1590.0     610.0
    810.0    1210.0    1410.0    5010.0   -1590.0     410.0     610.0     810.0
   1210.0    5010.0   -1590.0   -1390.0    -390.0    -190.0      10.0     210.0
    410.0     610.0     810.0    1010.0    1210.0     433.0    5010.0   -1390.0
  -1190.0    -990.0    -790.0    -590.0    -390.0    -190.0      10.0    5010.0
  -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
   5010.0    5610.0    5010.0    5210.0    5610.0    6010.0
    798.0     793.0     781.0     852.0     731.0     730.0     728.0     747.0
    625.0     797.0     731.0     652.0     771.0     792.0     904.0     858.0
    570.0     646.0     669.0     666.0     695.0     730.0     730.0     633.0
    722.0     853.0     609.0     554.0     583.0     694.0     756.0     756.0
    856.0     553.0     787.0     828.0     767.0     732.0     548.0     549.0
    722.4     773.0     875.0     914.0     954.0     838.0     686.0     549.0
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     755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
     799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
     661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
     865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
     732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
     487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
     768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
     497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
     487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
     427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
     610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
     610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
     610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
     410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
     609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
     489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
     365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
     372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
     363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
     585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
     331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
     321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
     312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
     310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
     305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
     305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
     302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
     297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
     348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0001120     0.0370 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0370 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0370 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0370 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     5.0530-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.2710  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.0620 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.5357 -4234.   227.  15.24   579.  1158. 130.58         1.8288
0006200     0.5358 -4123.   185.  15.24   549.  1158. 130.58         1.8288
0006300     0.5357 -2562.   354.  15.24   479.  1158. 130.58         1.8288
0006400     0.5358 -2434.   371.  15.24   472.  1158. 130.58         1.8288
0006500     0.5357  1318.   152.  15.24   351.  1158. 130.58         1.8288
0006600     0.5358  1438.   169.  15.24   340.  1158. 130.58         1.8288
0006700     0.5357  1565.   573.  15.24   335.  1158. 130.58         1.8288
0006800     0.5358  1569.   733.  15.24   335.  1158. 130.58         1.8288
0007120     0.0405 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0405 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0405 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0405 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.2410  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.1117  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.1118  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.1117  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.1118 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0520  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.2100  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.4220  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0450   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0500 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0500 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0500 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0500 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0000   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0000  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0500  1509.   387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - CO - PROPOSED - WITH MITIGATION - FINE GRID - 1H AVG

  00  00  46  36  24   0 370
       0   0  00      3   1   0
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1873.4   -1873.4   -1873.4
   -1873.4   -1873.4   -1773.4   -1773.4   -1773.4   -1773.4   -1773.4   -1673.4
   -1673.4   -1673.4   -1673.4   -1673.4   -1573.4   -1573.4   -1573.4   -1573.4
   -1573.4    2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2037.0
    2026.6    2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2026.6
    2126.6    2226.6    2326.6    2426.6    2526.6    2626.6
      10.0     110.0     210.0     310.0     410.0      10.0     110.0     210.0
     310.0     410.0      10.0     110.0     210.0     310.0     410.0      10.0
     110.0     210.0     310.0     410.0      10.0     110.0     210.0     310.0
     410.0    1210.0    1210.0    1210.0    1210.0    1210.0    1210.0    1231.0
    1310.0    1310.0    1310.0    1310.0    1310.0    1310.0    1310.0    1410.0
    1410.0    1410.0    1410.0    1410.0    1410.0    1410.0
     549.0     549.0     549.0     548.0     547.0     548.0     549.0     546.0
     534.0     512.0     548.0     549.0     539.0     511.0     491.0     548.0
     543.0     520.0     496.0     487.0     505.0     504.0     495.0     485.0
     482.0     308.0     305.0     305.0     305.0     305.0     305.0     310.9
     313.0     307.0     305.0     305.0     305.0     305.0     305.0     313.0
     308.0     305.0     305.0     305.0     305.0     305.0
   .683            366.7
0001120     0.0370 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0370 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0370 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0370 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     5.0530-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.2710  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.0620 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.5357 -4234.   227.  15.24   579.  1158. 130.58        1.8288
0006200     0.5358 -4123.   185.  15.24   549.  1158. 130.58        1.8288
0006300     0.5357 -2562.   354.  15.24   479.  1158. 130.58        1.8288
0006400     0.5358 -2434.   371.  15.24   472.  1158. 130.58        1.8288
0006500     0.5357  1318.   152.  15.24   351.  1158. 130.58        1.8288
0006600     0.5358  1438.   169.  15.24   340.  1158. 130.58        1.8288
0006700     0.5357  1565.   573.  15.24   335.  1158. 130.58        1.8288
0006800     0.5358  1569.   733.  15.24   335.  1158. 130.58        1.8288
0007120     0.0405 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0405 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0405 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0405 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.2410  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.1117  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.1118  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.1117  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.1118 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0520  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.2100  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.4220  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0450   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0500 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0500 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0500 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0500 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0000   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0000  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0500  1509.   387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - CO - PROPOSED - NO MITIGATION - COARSE GRID - 1H AVG

 00  00 278  36  24   0 370
     0   0  00        3   1   0
  -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4
  -5973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4
  -4973.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4573.4
  -4573.4   -4573.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4
  -4373.4   -4173.4   -4173.4   -4173.4   -3973.4   -3973.4   -3973.4   -3973.4
  -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3773.4
  -3773.4   -3773.4   -3773.4   -3773.4   -3573.4   -3573.4   -3573.4   -3373.4
  -3373.4   -3373.4   -3273.4   -3273.4   -3273.4   -3173.4   -3173.4   -3173.4
  -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4
  -2973.4   -2973.4   -2973.4   -2973.4   -2773.4   -2773.4   -2773.4   -2573.4
  -2573.4   -2573.4   -2373.4   -2373.4   -2373.4   -2173.4   -2173.4   -2173.4
  -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4
  -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1773.4
  -1773.4   -1773.4   -1773.4   -1773.4   -1773.4   -1573.4   -1573.4   -1573.4
  -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4
  -1373.4   -1373.4   -1373.4   -1173.4   -1173.4   -1173.4   -1173.4   -1173.4
  -1173.4   -1173.4    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4
   -973.4    -973.4    -973.4    -973.4    -973.4    -973.4    -773.4    -773.4
   -773.4    -773.4    -773.4    -573.4    -573.4    -573.4    -573.4    -573.4
   -373.4    -373.4    -373.4    -373.4    -373.4    -373.4    -173.4    -173.4
   -173.4      26.6      26.6      26.6      26.6      26.6      26.6      26.6
     26.6      26.6      26.6      26.6      26.6     226.6     226.6     226.6
    426.6     426.6     426.6     426.6     626.6     626.6     626.6     826.6
    826.6     826.6    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6
   1026.6    1026.6    1026.6    1026.6    1026.6    1026.6    1226.6    1226.6
   1226.6    1426.6    1426.6    1426.6    1426.6    1626.6    1626.6    1626.6
   1626.6    1626.6    1626.6    1626.6    1626.6    1626.6    1826.6    1826.6
   1826.6    1826.6    2026.6    2026.6    2026.6    2026.6    2026.6    2037.0
   2026.6    2026.6    2026.6    2026.6    2026.6    2026.6    2226.6    2226.6
   2226.6    2226.6    2226.6    2226.6    2426.6    2426.6    2426.6    2426.6
   2426.6    2426.6    2626.6    2626.6    2626.6    2626.6    2626.6    2626.6
   2626.6    2626.6    2626.6    2626.6    2626.6    2262.0    2626.6    2826.6
   2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6
   3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6
   3026.6    3026.6    3226.6    3226.6    3226.6    3226.6
  -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
   5610.0   -2390.0   -1390.0    -390.0    1610.0    2610.0    3610.0    4610.0
   5610.0     410.0     610.0     810.0    1010.0    1210.0    1210.0     410.0
   1210.0    4810.0      10.0     210.0     410.0    1410.0    1610.0    1610.0
   4810.0      10.0    1610.0    4810.0   -2390.0   -1390.0    -390.0      10.0
    610.0    1610.0    2610.0    3610.0    4610.0    4810.0    5610.0      10.0
   1610.0    1810.0    2010.0    4810.0      10.0    2010.0    4810.0      10.0
   2010.0    4810.0    2010.0    2210.0    2410.0      10.0    2410.0    4810.0
  -2390.0   -1390.0    -390.0      10.0     610.0    1610.0    2410.0    2610.0
   3610.0    4610.0    4810.0    5610.0      10.0    2410.0    4810.0      10.0
   2410.0    4810.0      10.0    2410.0    4810.0      10.0    2410.0    4810.0
  -2390.0   -1390.0    -390.0    -190.0      10.0     210.0     410.0     610.0
   1610.0    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0
   -590.0     210.0     410.0    2410.0    4810.0   -1190.0    -990.0    -790.0
   -590.0    -390.0    -190.0      10.0     210.0     410.0    2410.0    4810.0
  -1190.0    2410.0    4810.0   -1190.0    -990.0    -790.0    -590.0    -390.0
   2410.0    4810.0   -2390.0   -1390.0    -390.0    -190.0     610.0    1610.0
   2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -190.0    2010.0
   2210.0    2410.0    4810.0    -190.0    2010.0    2210.0    2410.0    4810.0
   -390.0    -190.0    2010.0    2210.0    2410.0    4810.0    -390.0    2410.0
   4810.0   -2390.0   -1390.0    -590.0    -390.0     610.0    1610.0    2410.0
   2610.0    3610.0    4610.0    4810.0    5610.0    -590.0    2410.0    4810.0
   -790.0    -590.0    2410.0    4810.0    -790.0    2410.0    4810.0    -790.0
   2410.0    4810.0   -2390.0   -1390.0    -790.0    -390.0     610.0    1610.0
   2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0    2410.0
   4810.0    -990.0    -790.0    2410.0    4810.0   -1190.0    -990.0    1610.0
   1810.0    2010.0    2210.0    2410.0    4810.0    5010.0   -1390.0   -1190.0
   1610.0    5010.0   -2390.0   -1390.0    -390.0     610.0    1410.0    1231.0
   1610.0    2610.0    3610.0    4610.0    5010.0    5610.0   -1590.0     610.0
    810.0    1210.0    1410.0    5010.0   -1590.0     410.0     610.0     810.0
   1210.0    5010.0   -1590.0   -1390.0    -390.0    -190.0      10.0     210.0
    410.0     610.0     810.0    1010.0    1210.0     433.0    5010.0   -1390.0
  -1190.0    -990.0    -790.0    -590.0    -390.0    -190.0      10.0    5010.0
  -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
   5010.0    5610.0    5010.0    5210.0    5610.0    6010.0
    798.0     793.0     781.0     852.0     731.0     730.0     728.0     747.0
    625.0     797.0     731.0     652.0     771.0     792.0     904.0     858.0
    570.0     646.0     669.0     666.0     695.0     730.0     730.0     633.0
    722.0     853.0     609.0     554.0     583.0     694.0     756.0     756.0
    856.0     553.0     787.0     828.0     767.0     732.0     548.0     549.0
    722.4     773.0     875.0     914.0     954.0     838.0     686.0     549.0
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     755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
     799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
     661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
     865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
     732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
     487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
     768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
     497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
     487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
     427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
     610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
     610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
     610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
     410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
     609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
     489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
     365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
     372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
     363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
     585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
     331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
     321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
     312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
     310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
     305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
     305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
     302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
     297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
     348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0001120     0.2040 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.2040 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.2040 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.2040 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     7.2920-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.2250  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.2880 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.5357 -4234.   227.  15.24   579.  1158. 130.58         1.8288
0006200     0.5358 -4123.   185.  15.24   549.  1158. 130.58         1.8288
0006300     0.5357 -2562.   354.  15.24   479.  1158. 130.58         1.8288
0006400     0.5358 -2434.   371.  15.24   472.  1158. 130.58         1.8288
0006500     0.5357  1318.   152.  15.24   351.  1158. 130.58         1.8288
0006600     0.5358  1438.   169.  15.24   340.  1158. 130.58         1.8288
0006700     0.5357  1565.   573.  15.24   335.  1158. 130.58         1.8288
0006800     0.5358  1569.   733.  15.24   335.  1158. 130.58         1.8288
0007120     0.0362 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0363 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0362 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0363 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.2120  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.0987  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.0988  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.0987  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.0988 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0460  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.2050  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.4760  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0510   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0440 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0440 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0440 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0440 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0950   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0240  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0390  1509.   387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - CO - PROPOSED - NO MITIGATION - FINE GRID "B2" - 1H AVG

  00  00  25  36  24   0 370
       0   0  00       3    1   0
    2326.6    2426.6    2526.6    2626.6    2262.0    2262.0    2326.6    2426.6
    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6    2626.6    2226.6
    2326.6    2426.6    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6
    2626.6
     410.0     410.0     410.0     410.0     433.0     510.0     510.0     510.0
     510.0     510.0     610.0     610.0     610.0     610.0     610.0     710.0
     710.0     710.0     710.0     710.0     810.0     810.0     810.0     810.0
     810.0
     310.0     307.0     305.0     305.0     310.9     312.0     309.0     304.0
     304.0     305.0     311.0     308.0     304.0     305.0     305.0     311.0
     308.0     306.0     304.0     305.0     310.0     307.0     305.0     304.0
     305.0
   .683            366.7
0001120     0.2040 2145.2  543.6      5.0   312.   111.   300.   164.
0001220     0.2040 2227.9  255.2      5.0   312.   111.   300.   164.
0001320     0.2040 2062.6  832.0      5.0   312.   111.   300.   164.
0001420     0.2040 1979.8 1120.4      5.0   312.   111.   300.   164.
0002020     7.2920-1039.3 1105.0      5.0   457.   380.   650.    90.
0003020     0.2250  0000.  0000.      5.0   457.   200.   380.    90.
0004020     0.2880 1478.8 -102.7      5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.      4.0   457.    10.    50.    90.
0006100     0.5357 -4234.   227.    15.24   579.  1158. 130.58          1.8288
0006200     0.5358 -4123.   185.    15.24   549.  1158. 130.58          1.8288
0006300     0.5357 -2562.   354.    15.24   479.  1158. 130.58          1.8288
0006400     0.5358 -2434.   371.    15.24   472.  1158. 130.58          1.8288
0006500     0.5357  1318.   152.    15.24   351.  1158. 130.58          1.8288
0006600     0.5358  1438.   169.    15.24   340.  1158. 130.58          1.8288
0006700     0.5357  1565.   573.    15.24   335.  1158. 130.58          1.8288
0006800     0.5358  1569.   733.    15.24   335.  1158. 130.58          1.8288
0007120     0.0362 1799.0  943.0      5.0   320.    30.  111.5   249.
0007220     0.0363 1903.1  982.9      5.0   320.    30.  111.5   249.
0007320     0.0362 1694.6  903.0      5.0   320.    30.  111.5   249.
0007420     0.0363 1590.9  863.1      5.0   320.    30.  111.5   249.
0008020     0.2120  1380.  1360.      5.0   381.    30.  1083.   342.
0009120     0.0987  551.3 1636.1      5.0   457.    30.  452.3   250.
0009220     0.0988  919.8 1770.2      5.0   457.    30.  452.3   250.
0009320     0.0987  182.7 1501.9      5.0   457.    30.  452.3   250.
0009420     0.0988 -185.8 1367.8      5.0   457.    30.  452.3   250.
0010020     0.0460  -655.  1231.      5.0   518.    30.   330.   263.
0011020     0.2050  -844.   983.      5.0   457.    30.   460.   186.
0012020     0.4760  -030.   536.      5.0   396.    30.  1733.   105.
0013020     0.0510   983.   258.      5.0   335.    30.   352.   112.
0014120     0.0440 1389.3  598.1      5.0   366.    30.  191.5    31.
0014220     0.0440 1487.9  762.2      5.0   366.    30.  191.5    31.
0014320     0.0440 1290.7  433.9      5.0   366.    30.  191.5    31.
0014420     0.0440 1192.1  269.8      5.0   366.    30.  191.5    31.
0015020     0.0950   268.   298.      5.0   411.    30.  1093.   268.
0016020     0.0240  -139.   139.      5.0   457.    30.   393.   135.
0017020     0.0390  1509.   387.      5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - SOX - PROPOSED - WITH MITIGATION - COARSE GRID - 1-HR AVG

  00   00 278  36  24    0 370
       0    0  00        3    1    0
   -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4
   -5973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4
   -4973.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4573.4
   -4573.4     -4573.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4
   -4373.4     -4173.4     -4173.4     -4173.4     -3973.4     -3973.4     -3973.4     -3973.4
   -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3773.4
   -3773.4     -3773.4     -3773.4     -3773.4     -3573.4     -3573.4     -3573.4     -3373.4
   -3373.4     -3373.4     -3273.4     -3273.4     -3273.4     -3173.4     -3173.4     -3173.4
   -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4
   -2973.4     -2973.4     -2973.4     -2973.4     -2773.4     -2773.4     -2773.4     -2573.4
   -2573.4     -2573.4     -2373.4     -2373.4     -2373.4     -2173.4     -2173.4     -2173.4
   -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4
   -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1773.4
   -1773.4     -1773.4     -1773.4     -1773.4     -1773.4     -1573.4     -1573.4     -1573.4
   -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4
   -1373.4     -1373.4     -1373.4     -1173.4     -1173.4     -1173.4     -1173.4     -1173.4
   -1173.4     -1173.4      -973.4      -973.4      -973.4      -973.4      -973.4      -973.4
    -973.4      -973.4      -973.4      -973.4      -973.4      -973.4      -773.4      -773.4
    -773.4      -773.4      -773.4      -573.4      -573.4      -573.4      -573.4      -573.4
    -373.4      -373.4      -373.4      -373.4      -373.4      -373.4      -173.4      -173.4
    -173.4        26.6        26.6        26.6        26.6        26.6        26.6        26.6
      26.6        26.6        26.6        26.6        26.6       226.6       226.6       226.6
     426.6       426.6       426.6       426.6       626.6       626.6       626.6       826.6
     826.6       826.6      1026.6      1026.6      1026.6      1026.6      1026.6      1026.6
    1026.6      1026.6      1026.6      1026.6      1026.6      1026.6      1226.6      1226.6
    1226.6      1426.6      1426.6      1426.6      1426.6      1626.6      1626.6      1626.6
    1626.6      1626.6      1626.6      1626.6      1626.6      1626.6      1826.6      1826.6
    1826.6      1826.6      2026.6      2026.6      2026.6      2026.6      2026.6      2037.0
    2026.6      2026.6      2026.6      2026.6      2026.6      2026.6      2226.6      2226.6
    2226.6      2226.6      2226.6      2226.6      2426.6      2426.6      2426.6      2426.6
    2426.6      2426.6      2626.6      2626.6      2626.6      2626.6      2626.6      2626.6
    2626.6      2626.6      2626.6      2626.6      2626.6      2262.0      2626.6      2826.6
    2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6
    3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6
    3026.6      3026.6      3226.6      3226.6      3226.6      3226.6
   -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
    5610.0     -2390.0     -1390.0      -390.0      1610.0      2610.0      3610.0      4610.0
    5610.0       410.0       610.0       810.0      1010.0      1210.0      1210.0       410.0
    1210.0      4810.0        10.0       210.0       410.0      1410.0      1610.0      1610.0
    4810.0        10.0      1610.0      4810.0     -2390.0     -1390.0      -390.0        10.0
     610.0      1610.0      2610.0      3610.0      4610.0      4810.0      5610.0        10.0
    1610.0      1810.0      2010.0      4810.0        10.0      2010.0      4810.0        10.0
    2010.0      4810.0      2010.0      2210.0      2410.0        10.0      2410.0      4810.0
   -2390.0     -1390.0      -390.0        10.0       610.0      1610.0      2410.0      2610.0
    3610.0      4610.0      4810.0      5610.0        10.0      2410.0      4810.0        10.0
    2410.0      4810.0        10.0      2410.0      4810.0        10.0      2410.0      4810.0
   -2390.0     -1390.0      -390.0      -190.0        10.0       210.0       410.0       610.0
    1610.0      2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0
    -590.0       210.0       410.0      2410.0      4810.0     -1190.0      -990.0      -790.0
    -590.0      -390.0      -190.0        10.0       210.0       410.0      2410.0      4810.0
   -1190.0      2410.0      4810.0     -1190.0      -990.0      -790.0      -590.0      -390.0
    2410.0      4810.0     -2390.0     -1390.0      -390.0      -190.0       610.0      1610.0
    2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -190.0      2010.0
    2210.0      2410.0      4810.0      -190.0      2010.0      2210.0      2410.0      4810.0
    -390.0      -190.0      2010.0      2210.0      2410.0      4810.0      -390.0      2410.0
    4810.0     -2390.0     -1390.0      -590.0      -390.0       610.0      1610.0      2410.0
    2610.0      3610.0      4610.0      4810.0      5610.0      -590.0      2410.0      4810.0
    -790.0      -590.0      2410.0      4810.0      -790.0      2410.0      4810.0      -790.0
    2410.0      4810.0     -2390.0     -1390.0      -790.0      -390.0       610.0      1610.0
    2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0      2410.0
    4810.0      -990.0      -790.0      2410.0      4810.0     -1190.0      -990.0      1610.0
    1810.0      2010.0      2210.0      2410.0      4810.0      5010.0     -1390.0     -1190.0
    1610.0      5010.0     -2390.0     -1390.0      -390.0       610.0      1410.0      1231.0
    1610.0      2610.0      3610.0      4610.0      5010.0      5610.0     -1590.0       610.0
     810.0      1210.0      1410.0      5010.0     -1590.0       410.0       610.0       810.0
    1210.0      5010.0     -1590.0     -1390.0      -390.0      -190.0        10.0       210.0
     410.0       610.0       810.0      1010.0      1210.0       433.0      5010.0     -1390.0
   -1190.0      -990.0      -790.0      -590.0      -390.0      -190.0        10.0      5010.0
   -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
    5010.0      5610.0      5010.0      5210.0      5610.0      6010.0
     798.0       793.0       781.0       852.0       731.0       730.0       728.0       747.0
     625.0       797.0       731.0       652.0       771.0       792.0       904.0       858.0
     570.0       646.0       669.0       666.0       695.0       730.0       730.0       633.0
     722.0       853.0       609.0       554.0       583.0       694.0       756.0       756.0
     856.0       553.0       787.0       828.0       767.0       732.0       548.0       549.0
     722.4       773.0       875.0       914.0       954.0       838.0       686.0       549.0
     755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
     799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
     661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
     865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
     732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
     487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
     768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
     497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
     487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
     427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
     610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
     610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
     610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
     410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
     609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
     489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
     365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
     372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
     363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
     585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
     331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
     321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
     312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
     310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
     305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
     305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
     302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
     297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
     348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0001120     0.0027 2145.2   543.6    5.0   312.   111.   300.   164.
0001220     0.0028 2227.9   255.2    5.0   312.   111.   300.   164.
0001320     0.0027 2062.6   832.0    5.0   312.   111.   300.   164.
0001420     0.0028 1979.8  1120.4    5.0   312.   111.   300.   164.
0002020     0.3670-1039.3  1105.0    5.0   457.   380.   650.    90.
0003020     0.0200  0000.   0000.    5.0   457.   200.   380.    90.
0004020     0.0040 1478.8  -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.   0000.    4.0   457.    10.    50.    90.
0006100     0.2032 -4234.    227.  15.24   579.  1158. 130.58         1.8288
0006200     0.2033 -4123.    185.  15.24   549.  1158. 130.58         1.8288
0006300     0.2032 -2562.    354.  15.24   479.  1158. 130.58         1.8288
0006400     0.2033 -2434.    371.  15.24   472.  1158. 130.58         1.8288
0006500     0.2032  1318.    152.  15.24   351.  1158. 130.58         1.8288
0006600     0.2033  1438.    169.  15.24   340.  1158. 130.58         1.8288
0006700     0.2032  1565.    573.  15.24   335.  1158. 130.58         1.8288
0006800     0.2033  1569.    733.  15.24   335.  1158. 130.58         1.8288
0007120     0.0030 1799.0   943.0    5.0   320.    30.  111.5   249.
0007220     0.0030 1903.1   982.9    5.0   320.    30.  111.5   249.
0007320     0.0030 1694.6   903.0    5.0   320.    30.  111.5   249.
0007420     0.0030 1590.9   863.1    5.0   320.    30.  111.5   249.
0008020     0.0170  1380.   1360.    5.0   381.    30.  1083.   342.
0009120     0.0080  551.3  1636.1    5.0   457.    30.  452.3   250.
0009220     0.0080  919.8  1770.2    5.0   457.    30.  452.3   250.
0009320     0.0080  182.7  1501.9    5.0   457.    30.  452.3   250.
0009420     0.0080 -185.8  1367.8    5.0   457.    30.  452.3   250.
0010020     0.0040  -655.   1231.    5.0   518.    30.   330.   263.
0011020     0.0150  -844.    983.    5.0   457.    30.   460.   186.
0012020     0.0310  -030.    536.    5.0   396.    30.  1733.   105.
0013020     0.0030   983.    258.    5.0   335.    30.   352.   112.
0014120     0.0037 1389.3   598.1    5.0   366.    30.  191.5    31.
0014220     0.0038 1487.9   762.2    5.0   366.    30.  191.5    31.
0014320     0.0037 1290.7   433.9    5.0   366.    30.  191.5    31.
0014420     0.0038 1192.1   269.8    5.0   366.    30.  191.5    31.
0015020     0.0000   268.    298.    5.0   411.    30.  1093.   268.
0016020     0.0000  -139.    139.    5.0   457.    30.   393.   135.
0017020     0.0040  1509.    387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - SOX - PROPOSED - WITH MITIGATION - FINE GRID - 1-HR AVG

  00  00  68  36  24    0 370
       0   0  00        3   1   0
   -2973.4   -2973.4   -2973.4   -2973.4   -2873.4   -2873.4   -2873.4   -2873.4
   -2773.4   -2773.4   -2773.4   -2773.4   -2673.4   -2673.4   -2673.4   -2673.4
   -2573.4   -2573.4   -2573.4   -2573.4   -2473.4   -2473.4   -2473.4   -2473.4
   -2373.4   -2373.4   -2373.4   -2373.4   -2273.4   -2273.4   -2273.4   -2273.4
   -2173.4   -2173.4   -2173.4   -2173.4   -2073.4   -2073.4   -2073.4   -2073.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4
   -1873.4   -1873.4   -1873.4   -1873.4   -1873.4   -1773.4   -1773.4   -1773.4
   -1773.4   -1773.4   -1673.4   -1673.4   -1673.4   -1673.4   -1673.4   -1573.4
   -1573.4   -1573.4   -1573.4   -1573.4
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0     110.0     210.0     310.0     410.0
      10.0     110.0     210.0     310.0     410.0      10.0     110.0     210.0
     310.0     410.0      10.0     110.0     210.0     310.0     410.0      10.0
     110.0     210.0     310.0     410.0
     627.9     594.4     560.8     601.0     615.7     609.6     606.6     533.4
     624.8     612.6     609.6     609.0     649.2     630.9     609.6     563.9
     640.1     621.8     597.4     587.0     640.1     595.9     582.2     554.7
     646.2     603.5     573.0     574.0     624.8     609.6     557.8     502.9
     624.8     609.6     563.9     564.0     624.8     609.6     563.9     518.2
     510.0     526.0     548.0     549.0     549.0     549.0     548.0     547.0
     548.0     549.0     546.0     534.0     512.0     548.0     549.0     539.0
     511.0     491.0     548.0     543.0     520.0     496.0     487.0     505.0
     504.0     495.0     485.0     482.0
     .683          366.7
0001120     0.0027 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0028 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0027 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0028 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     0.3670-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.0200  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.0040 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.2032 -4234.   227.  15.24   579.  1158. 130.58        1.8288
0006200     0.2033 -4123.   185.  15.24   549.  1158. 130.58        1.8288
0006300     0.2032 -2562.   354.  15.24   479.  1158. 130.58        1.8288
0006400     0.2033 -2434.   371.  15.24   472.  1158. 130.58        1.8288
0006500     0.2032  1318.   152.  15.24   351.  1158. 130.58        1.8288
0006600     0.2033  1438.   169.  15.24   340.  1158. 130.58        1.8288
0006700     0.2032  1565.   573.  15.24   335.  1158. 130.58        1.8288
0006800     0.2033  1569.   733.  15.24   335.  1158. 130.58        1.8288
0007120     0.0030 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0030 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0030 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0030 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.0170  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.0080  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.0080  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.0080  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.0080 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0040  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.0150  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.0310  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0030   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0037 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0038 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0037 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0038 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0000   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0000  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0040  1509.   387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - SOX - PROPOSED - WITH MITIGATION - COARSE GRID - 24-HR AVG

  00  00 278  36  24    0 370
      0   0  00         3   1   0
    -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4
    -5973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4
    -4973.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4573.4
    -4573.4     -4573.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4
    -4373.4     -4173.4     -4173.4     -4173.4     -3973.4     -3973.4     -3973.4     -3973.4
    -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3773.4
    -3773.4     -3773.4     -3773.4     -3773.4     -3573.4     -3573.4     -3573.4     -3373.4
    -3373.4     -3373.4     -3273.4     -3273.4     -3273.4     -3173.4     -3173.4     -3173.4
    -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4
    -2973.4     -2973.4     -2973.4     -2973.4     -2773.4     -2773.4     -2773.4     -2573.4
    -2573.4     -2573.4     -2373.4     -2373.4     -2373.4     -2173.4     -2173.4     -2173.4
    -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4
    -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1773.4
    -1773.4     -1773.4     -1773.4     -1773.4     -1773.4     -1573.4     -1573.4     -1573.4
    -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4
    -1373.4     -1373.4     -1373.4     -1173.4     -1173.4     -1173.4     -1173.4     -1173.4
    -1173.4     -1173.4      -973.4      -973.4      -973.4      -973.4      -973.4      -973.4
     -973.4      -973.4      -973.4      -973.4      -973.4      -973.4      -773.4      -773.4
     -773.4      -773.4      -773.4      -573.4      -573.4      -573.4      -573.4      -573.4
     -373.4      -373.4      -373.4      -373.4      -373.4      -373.4      -173.4      -173.4
     -173.4        26.6        26.6        26.6        26.6        26.6        26.6        26.6
       26.6        26.6        26.6        26.6        26.6       226.6       226.6       226.6
      426.6       426.6       426.6       426.6       626.6       626.6       626.6       826.6
      826.6       826.6      1026.6      1026.6      1026.6      1026.6      1026.6      1026.6
     1026.6      1026.6      1026.6      1026.6      1026.6      1026.6      1226.6      1226.6
     1226.6      1426.6      1426.6      1426.6      1426.6      1626.6      1626.6      1626.6
     1626.6      1626.6      1626.6      1626.6      1626.6      1626.6      1826.6      1826.6
     1826.6      1826.6      2026.6      2026.6      2026.6      2026.6      2026.6      2037.0
     2026.6      2026.6      2026.6      2026.6      2026.6      2026.6      2226.6      2226.6
     2226.6      2226.6      2226.6      2226.6      2426.6      2426.6      2426.6      2426.6
     2426.6      2426.6      2626.6      2626.6      2626.6      2626.6      2626.6      2626.6
     2626.6      2626.6      2626.6      2626.6      2626.6      2262.0      2626.6      2826.6
     2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6
     3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6
     3026.6      3026.6      3226.6      3226.6      3226.6      3226.6
    -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
     5610.0     -2390.0     -1390.0      -390.0      1610.0      2610.0      3610.0      4610.0
     5610.0       410.0       610.0       810.0      1010.0      1210.0      1210.0       410.0
     1210.0      4810.0        10.0       210.0       410.0      1410.0      1610.0      1610.0
     4810.0        10.0      1610.0      4810.0     -2390.0     -1390.0      -390.0        10.0
      610.0      1610.0      2610.0      3610.0      4610.0      4810.0      5610.0        10.0
     1610.0      1810.0      2010.0      4810.0        10.0      2010.0      4810.0        10.0
     2010.0      4810.0      2010.0      2210.0      2410.0        10.0      2410.0      4810.0
    -2390.0     -1390.0      -390.0        10.0       610.0      1610.0      2410.0      2610.0
     3610.0      4610.0      4810.0      5610.0        10.0      2410.0      4810.0        10.0
     2410.0      4810.0        10.0      2410.0      4810.0        10.0      2410.0      4810.0
    -2390.0     -1390.0      -390.0      -190.0        10.0       210.0       410.0       610.0
     1610.0      2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0
     -590.0       210.0       410.0      2410.0      4810.0     -1190.0      -990.0      -790.0
     -590.0      -390.0      -190.0        10.0       210.0       410.0      2410.0      4810.0
    -1190.0      2410.0      4810.0     -1190.0      -990.0      -790.0      -590.0      -390.0
     2410.0      4810.0     -2390.0     -1390.0      -390.0      -190.0       610.0      1610.0
     2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -190.0      2010.0
     2210.0      2410.0      4810.0      -190.0      2010.0      2210.0      2410.0      4810.0
     -390.0      -190.0      2010.0      2210.0      2410.0      4810.0      -390.0      2410.0
     4810.0     -2390.0     -1390.0      -590.0      -390.0       610.0      1610.0      2410.0
     2610.0      3610.0      4610.0      4810.0      5610.0      -590.0      2410.0      4810.0
     -790.0      -590.0      2410.0      4810.0      -790.0      2410.0      4810.0      -790.0
     2410.0      4810.0     -2390.0     -1390.0      -790.0      -390.0       610.0      1610.0
     2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0      2410.0
     4810.0      -990.0      -790.0      2410.0      4810.0     -1190.0      -990.0      1610.0
     1810.0      2010.0      2210.0      2410.0      4810.0      5010.0     -1390.0     -1190.0
     1610.0      5010.0     -2390.0     -1390.0      -390.0       610.0      1410.0      1231.0
     1610.0      2610.0      3610.0      4610.0      5010.0      5610.0     -1590.0       610.0
      810.0      1210.0      1410.0      5010.0     -1590.0       410.0       610.0       810.0
     1210.0      5010.0     -1590.0     -1390.0      -390.0      -190.0        10.0       210.0
      410.0       610.0       810.0      1010.0      1210.0       433.0      5010.0     -1390.0
    -1190.0      -990.0      -790.0      -590.0      -390.0      -190.0        10.0      5010.0
    -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
     5010.0      5610.0      5010.0      5210.0      5610.0      6010.0
      798.0       793.0       781.0       852.0       731.0       730.0       728.0       747.0
      625.0       797.0       731.0       652.0       771.0       792.0       904.0       858.0
      570.0       646.0       669.0       666.0       695.0       730.0       730.0       633.0
      722.0       853.0       609.0       554.0       583.0       694.0       756.0       756.0
      856.0       553.0       787.0       828.0       767.0       732.0       548.0       549.0
      722.4       773.0       875.0       914.0       954.0       838.0       686.0       549.0
     755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
     799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
     661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
     865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
     732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
     487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
     768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
     497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
     487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
     427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
     610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
     610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
     610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
     410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
     609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
     489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
     365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
     372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
     363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
     585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
     331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
     321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
     312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
     310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
     305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
     305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
     302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
     297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
     348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0001120     0.0010 2145.2  543.6    5.0  312.    111.    300.   164.
0001220     0.0010 2227.9  255.2    5.0  312.    111.    300.   164.
0001320     0.0010 2062.6  832.0    5.0  312.    111.    300.   164.
0001420     0.0010 1979.8 1120.4    5.0  312.    111.    300.   164.
0002020     0.1470-1039.3 1105.0    5.0  457.    380.    650.    90.
0003020     0.0080  0000.  0000.    5.0  457.    200.    380.    90.
0004020     0.0010 1478.8 -102.7    5.0  366.    140.    360.    90.
0005020     0.0000  0000.  0000.    4.0  457.     10.     50.    90.
0006100     0.2032 -4234.   227.  15.24  579.   1158. 130.58         1.8288
0006200     0.2033 -4123.   185.  15.24  549.   1158. 130.58         1.8288
0006300     0.2032 -2562.   354.  15.24  479.   1158. 130.58         1.8288
0006400     0.2033 -2434.   371.  15.24  472.   1158. 130.58         1.8288
0006500     0.2032  1318.   152.  15.24  351.   1158. 130.58         1.8288
0006600     0.2033  1438.   169.  15.24  340.   1158. 130.58         1.8288
0006700     0.2032  1565.   573.  15.24  335.   1158. 130.58         1.8288
0006800     0.2033  1569.   733.  15.24  335.   1158. 130.58         1.8288
0007120     0.0012 1799.0  943.0    5.0  320.     30.  111.5   249.
0007220     0.0013 1903.1  982.9    5.0  320.     30.  111.5   249.
0007320     0.0012 1694.6  903.0    5.0  320.     30.  111.5   249.
0007420     0.0013 1590.9  863.1    5.0  320.     30.  111.5   249.
0008020     0.0070  1380.  1360.    5.0  381.     30.  1083.   342.
0009120     0.0035  551.3 1636.1    5.0  457.     30.  452.3   250.
0009220     0.0035  919.8 1770.2    5.0  457.     30.  452.3   250.
0009320     0.0035  182.7 1501.9    5.0  457.     30.  452.3   250.
0009420     0.0035 -185.8 1367.8    5.0  457.     30.  452.3   250.
0010020     0.0020  -655.  1231.    5.0  518.     30.   330.   263.
0011020     0.0060  -844.   983.    5.0  457.     30.   460.   186.
0012020     0.0130  -030.   536.    5.0  396.     30.  1733.   105.
0013020     0.0010   983.   258.    5.0  335.     30.   352.   112.
0014120     0.0015 1389.3  598.1    5.0  366.     30.  191.5    31.
0014220     0.0015 1487.9  762.2    5.0  366.     30.  191.5    31.
0014320     0.0015 1290.7  433.9    5.0  366.     30.  191.5    31.
0014420     0.0015 1192.1  269.8    5.0  366.     30.  191.5    31.
0015020     0.0000   268.   298.    5.0  411.     30.  1093.   268.
0016020     0.0000  -139.   139.    5.0  457.     30.   393.   135.
0017020     0.0020  1509.   387.    5.0  320.     30.   925.     4.
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2EAGLE MTN - SHORTZ - SOX - PROPOSED - WITH MITIGATION - FINE GRID "A" - 24-HR AVG

  00  00  68  36  24    0 370
     0   0  00          3   1   0
   -2973.4   -2973.4   -2973.4   -2973.4   -2873.4   -2873.4   -2873.4   -2873.4
   -2773.4   -2773.4   -2773.4   -2773.4   -2673.4   -2673.4   -2673.4   -2673.4
   -2573.4   -2573.4   -2573.4   -2573.4   -2473.4   -2473.4   -2473.4   -2473.4
   -2373.4   -2373.4   -2373.4   -2373.4   -2273.4   -2273.4   -2273.4   -2273.4
   -2173.4   -2173.4   -2173.4   -2173.4   -2073.4   -2073.4   -2073.4   -2073.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4
   -1873.4   -1873.4   -1873.4   -1873.4   -1873.4   -1773.4   -1773.4   -1773.4
   -1773.4   -1773.4   -1673.4   -1673.4   -1673.4   -1673.4   -1673.4   -1573.4
   -1573.4   -1573.4   -1573.4   -1573.4
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0    -290.0    -190.0     -90.0      10.0
    -290.0    -190.0     -90.0      10.0     110.0     210.0     310.0     410.0
      10.0     110.0     210.0     310.0     410.0      10.0     110.0     210.0
     310.0     410.0      10.0     110.0     210.0     310.0     410.0      10.0
     110.0     210.0     310.0     410.0
     627.9     594.4     560.8     601.0     615.7     609.6     606.6     533.4
     624.8     612.6     609.6     609.0     649.2     630.9     609.6     563.9
     640.1     621.8     597.4     587.0     640.1     595.9     582.2     554.7
     646.2     603.5     573.0     574.0     624.8     609.6     557.8     502.9
     624.8     609.6     563.9     564.0     624.8     609.6     563.9     518.2
     510.0     526.0     548.0     549.0     549.0     549.0     548.0     547.0
     548.0     549.0     546.0     534.0     512.0     548.0     549.0     539.0
     511.0     491.0     548.0     543.0     520.0     496.0     487.0     505.0
     504.0     495.0     485.0     482.0
   .683           366.7
0001120      0.0010 2145.2  543.6    5.0  312.   111.   300.   164.
0001220      0.0010 2227.9  255.2    5.0  312.   111.   300.   164.
0001320      0.0010 2062.6  832.0    5.0  312.   111.   300.   164.
0001420      0.0010 1979.8 1120.4    5.0  312.   111.   300.   164.
0002020      0.1470-1039.3 1105.0    5.0  457.   380.   650.    90.
0003020      0.0080  0000.  0000.    5.0  457.   200.   380.    90.
0004020      0.0010 1478.8 -102.7    5.0  366.   140.   360.    90.
0005020      0.0000  0000.  0000.    4.0  457.    10.    50.    90.
0006100      0.2032 -4234.   227.  15.24  579.  1158. 130.58          1.8288
0006200      0.2033 -4123.   185.  15.24  549.  1158. 130.58          1.8288
0006300      0.2032 -2562.   354.  15.24  479.  1158. 130.58          1.8288
0006400      0.2033 -2434.   371.  15.24  472.  1158. 130.58          1.8288
0006500      0.2032  1318.   152.  15.24  351.  1158. 130.58          1.8288
0006600      0.2033  1438.   169.  15.24  340.  1158. 130.58          1.8288
0006700      0.2032  1565.   573.  15.24  335.  1158. 130.58          1.8288
0006800      0.2033  1569.   733.  15.24  335.  1158. 130.58          1.8288
0007120      0.0012 1799.0  943.0    5.0  320.    30.  111.5   249.
0007220      0.0013 1903.1  982.9    5.0  320.    30.  111.5   249.
0007320      0.0012 1694.6  903.0    5.0  320.    30.  111.5   249.
0007420      0.0013 1590.9  863.1    5.0  320.    30.  111.5   249.
0008020      0.0070  1380.  1360.    5.0  381.    30.  1083.   342.
0009120      0.0035  551.3 1636.1    5.0  457.    30.  452.3   250.
0009220      0.0035  919.8 1770.2    5.0  457.    30.  452.3   250.
0009320      0.0035  182.7 1501.9    5.0  457.    30.  452.3   250.
0009420      0.0035 -185.8 1367.8    5.0  457.    30.  452.3   250.
0010020      0.0020  -655.  1231.    5.0  518.    30.   330.   263.
0011020      0.0060  -844.   983.    5.0  457.    30.   460.   186.
0012020      0.0130  -030.   536.    5.0  396.    30.  1733.   105.
0013020      0.0010   983.   258.    5.0  335.    30.   352.   112.
0014120      0.0015 1389.3  598.1    5.0  366.    30.  191.5    31.
0014220      0.0015 1487.9  762.2    5.0  366.    30.  191.5    31.
0014320      0.0015 1290.7  433.9    5.0  366.    30.  191.5    31.
0014420      0.0015 1192.1  269.8    5.0  366.    30.  191.5    31.
0015020      0.0000   268.   298.    5.0  411.    30.  1093.   268.
0016020      0.0000  -139.   139.    5.0  457.    30.   393.   135.
0017020      0.0020  1509.   387.    5.0  320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - SOX - PROPOSED - NO MITIGATION - COARSE GRID - 1-HR AVG

  00  00 278  36  24   0 370
     0   0  00       3   1   0
   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4
   -5973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4
   -4973.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4573.4
   -4573.4   -4573.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4
   -4373.4   -4173.4   -4173.4   -4173.4   -3973.4   -3973.4   -3973.4   -3973.4
   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3773.4
   -3773.4   -3773.4   -3773.4   -3773.4   -3573.4   -3573.4   -3573.4   -3373.4
   -3373.4   -3373.4   -3273.4   -3273.4   -3273.4   -3173.4   -3173.4   -3173.4
   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4
   -2973.4   -2973.4   -2973.4   -2973.4   -2773.4   -2773.4   -2773.4   -2573.4
   -2573.4   -2573.4   -2373.4   -2373.4   -2373.4   -2173.4   -2173.4   -2173.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1773.4
   -1773.4   -1773.4   -1773.4   -1773.4   -1773.4   -1573.4   -1573.4   -1573.4
   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4
   -1373.4   -1373.4   -1373.4   -1173.4   -1173.4   -1173.4   -1173.4   -1173.4
   -1173.4   -1173.4    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4
    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4    -773.4    -773.4
    -773.4    -773.4    -773.4    -573.4    -573.4    -573.4    -573.4    -573.4
    -373.4    -373.4    -373.4    -373.4    -373.4    -373.4    -173.4    -173.4
    -173.4      26.6      26.6      26.6      26.6      26.6      26.6      26.6
      26.6      26.6      26.6      26.6      26.6     226.6     226.6     226.6
     426.6     426.6     426.6     426.6     626.6     626.6     626.6     826.6
     826.6     826.6    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6
    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6    1226.6    1226.6
    1226.6    1426.6    1426.6    1426.6    1426.6    1626.6    1626.6    1626.6
    1626.6    1626.6    1626.6    1626.6    1626.6    1626.6    1826.6    1826.6
    1826.6    1826.6    2026.6    2026.6    2026.6    2026.6    2026.6    2037.0
    2026.6    2026.6    2026.6    2026.6    2026.6    2026.6    2226.6    2226.6
    2226.6    2226.6    2226.6    2226.6    2426.6    2426.6    2426.6    2426.6
    2426.6    2426.6    2626.6    2626.6    2626.6    2626.6    2626.6    2626.6
    2626.6    2626.6    2626.6    2626.6    2626.6    2262.0    2626.6    2826.6
    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6
    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6
    3026.6    3026.6    3226.6    3226.6    3226.6    3226.6
   -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
    5610.0   -2390.0   -1390.0    -390.0    1610.0    2610.0    3610.0    4610.0
    5610.0     410.0     610.0     810.0    1010.0    1210.0    1210.0     410.0
    1210.0    4810.0      10.0     210.0     410.0    1410.0    1610.0    1610.0
    4810.0      10.0    1610.0    4810.0   -2390.0   -1390.0    -390.0      10.0
     610.0    1610.0    2610.0    3610.0    4610.0    4810.0    5610.0      10.0
    1610.0    1810.0    2010.0    4810.0      10.0    2010.0    4810.0      10.0
    2010.0    4810.0    2010.0    2210.0    2410.0      10.0    2410.0    4810.0
   -2390.0   -1390.0    -390.0      10.0     610.0    1610.0    2410.0    2610.0
    3610.0    4610.0    4810.0    5610.0      10.0    2410.0    4810.0      10.0
    2410.0    4810.0      10.0    2410.0    4810.0      10.0    2410.0    4810.0
   -2390.0   -1390.0    -390.0    -190.0      10.0     210.0     410.0     610.0
    1610.0    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0
    -590.0     210.0     410.0    2410.0    4810.0   -1190.0    -990.0    -790.0
    -590.0    -390.0    -190.0      10.0     210.0     410.0    2410.0    4810.0
   -1190.0    2410.0    4810.0   -1190.0    -990.0    -790.0    -590.0    -390.0
    2410.0    4810.0   -2390.0   -1390.0    -390.0    -190.0     610.0    1610.0
    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -190.0    2010.0
    2210.0    2410.0    4810.0    -190.0    2010.0    2210.0    2410.0    4810.0
    -390.0    -190.0    2010.0    2210.0    2410.0    4810.0    -390.0    2410.0
    4810.0   -2390.0   -1390.0    -590.0    -390.0     610.0    1610.0    2410.0
    2610.0    3610.0    4610.0    4810.0    5610.0    -590.0    2410.0    4810.0
    -790.0    -590.0    2410.0    4810.0    -790.0    2410.0    4810.0    -790.0
    2410.0    4810.0   -2390.0   -1390.0    -790.0    -390.0     610.0    1610.0
    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0    2410.0
    4810.0    -990.0    -790.0    2410.0    4810.0   -1190.0    -990.0    1610.0
    1810.0    2010.0    2210.0    2410.0    4810.0    5010.0   -1390.0   -1190.0
    1610.0    5010.0   -2390.0   -1390.0    -390.0     610.0    1410.0    1231.0
    1610.0    2610.0    3610.0    4610.0    5010.0    5610.0   -1590.0     610.0
     810.0    1210.0    1410.0    5010.0   -1590.0     410.0     610.0     810.0
    1210.0    5010.0   -1590.0   -1390.0    -390.0    -190.0      10.0     210.0
     410.0     610.0     810.0    1010.0    1210.0     433.0    5010.0   -1390.0
   -1190.0    -990.0    -790.0    -590.0    -390.0    -190.0      10.0    5010.0
   -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
    5010.0    5610.0    5010.0    5210.0    5610.0    6010.0
     798.0     793.0     781.0     852.0     731.0     730.0     728.0     747.0
     625.0     797.0     731.0     652.0     771.0     792.0     904.0     858.0
     570.0     646.0     669.0     666.0     695.0     730.0     730.0     633.0
     722.0     853.0     609.0     554.0     583.0     694.0     756.0     756.0
     856.0     553.0     787.0     828.0     767.0     732.0     548.0     549.0
     722.4     773.0     875.0     914.0     954.0     838.0     686.0     549.0
     755.0      792.0      824.0      839.0      549.0      848.0      852.0      549.0
     799.0      831.0      787.0      841.0      862.0      567.0      841.0      806.0
     661.0      613.0      609.0      601.0      579.1      823.0      784.0      786.0
     865.0      770.0      747.0      642.0      609.0      731.0      724.0      587.0
     732.0      713.0      574.0      726.0      700.0      564.0      675.0      675.0
     487.0      522.0      487.0      526.0      549.0      549.0      547.0      478.5
     768.1      675.0      799.0      696.0      628.0      646.0      597.0      529.0
     497.0      539.0      491.0      668.0      609.0      433.0      459.0      482.0
     487.0      465.0      475.0      505.0      495.0      482.0      648.0      609.0
     427.0      609.0      575.0      423.0      423.0      424.0      425.0      425.0
     610.0      555.0      407.0      411.0      421.0      423.0      387.1      594.4
     610.0      609.0      609.0      551.0      549.0      549.0      420.0      603.0
     610.0      610.0      549.0      417.0      593.0      609.0      610.0      572.0
     410.0      418.0      564.0      594.0      599.0      598.0      402.0      502.0
     609.0      366.0      366.0      384.0      392.0      292.6      501.7      428.0
     489.0      555.0      605.0      609.0      487.0      373.0      426.0      608.0
     365.0      366.0      424.0      575.0      360.0      408.0      548.0      355.0
     372.0      563.0      339.0      346.0      350.0      351.0      320.0      397.8
     363.0      365.0      422.0      541.0      548.0      600.0      344.0      355.0
     585.0      337.0      338.0      346.0      588.0      331.0      332.0      331.0
     331.0      332.0      333.0      337.0      532.0      533.0      325.0      326.0
     321.0      486.0      309.0      320.0      322.0      317.0      313.0      310.9
     312.0      326.7      342.0      440.0      469.0      515.0      313.0      311.0
     310.0      305.0      305.0      438.0      309.0      307.0      304.0      305.0
     305.0      426.0      304.0      304.0      305.0      304.0      305.0      305.0
     305.0      305.0      305.0      305.0      305.0      310.9      380.0      301.0
     302.0      302.0      302.0      303.0      303.0      303.0      303.0      358.0
     297.0      298.0      300.0      301.0      302.0      303.0      305.0      333.0
     348.0      372.0      338.0      345.0      362.0      373.0
   .683             366.7
0001120      0.0445 2145.2  543.6    5.0   312.    111.   300.   164.
0001220      0.0445 2227.9  255.2    5.0   312.    111.   300.   164.
0001320      0.0445 2062.6  832.0    5.0   312.    111.   300.   164.
0001420      0.0445 1979.8 1120.4    5.0   312.    111.   300.   164.
0002020      2.0050-1039.3 1105.0    5.0   457.    380.   650.    90.
0003020      0.0930  0000.  0000.    5.0   457.    200.   380.    90.
0004020      0.0690 1478.8 -102.7    5.0   366.    140.   360.    90.
0005020      0.0000  0000.  0000.    4.0   457.     10.    50.    90.
0006100      0.2032 -4234.   227.  15.24   579.   1158. 130.58         1.8288
0006200      0.2033 -4123.   185.  15.24   549.   1158. 130.58         1.8288
0006300      0.2032 -2562.   354.  15.24   479.   1158. 130.58         1.8288
0006400      0.2033 -2434.   371.  15.24   472.   1158. 130.58         1.8288
0006500      0.2032  1318.   152.  15.24   351.   1158. 130.58         1.8288
0006600      0.2033  1438.   169.  15.24   340.   1158. 130.58         1.8288
0006700      0.2032  1565.   573.  15.24   335.   1158. 130.58         1.8288
0006800      0.2033  1569.   733.  15.24   335.   1158. 130.58         1.8288
0007120      0.0142 1799.0  943.0    5.0   320.     30.  111.5   249.
0007220      0.0143 1903.1  982.9    5.0   320.     30.  111.5   249.
0007320      0.0142 1694.6  903.0    5.0   320.     30.  111.5   249.
0007420      0.0143 1590.9  863.1    5.0   320.     30.  111.5   249.
0008020      0.0840  1380.  1360.    5.0   381.     30.  1083.   342.
0009120      0.0390  551.3 1636.1    5.0   457.     30.  452.3   250.
0009220      0.0390  919.8 1770.2    5.0   457.     30.  452.3   250.
0009320      0.0390  182.7 1501.9    5.0   457.     30.  452.3   250.
0009420      0.0390 -185.8 1367.8    5.0   457.     30.  452.3   250.
0010020      0.0180  -655.  1231.    5.0   518.     30.   330.   263.
0011020      0.0810  -844.   983.    5.0   457.     30.   460.   186.
0012020      0.1880  -030.   536.    5.0   396.     30.  1733.   105.
0013020      0.0200   983.   258.    5.0   335.     30.   352.   112.
0014120      0.0175 1389.3  598.1    5.0   366.     30.  191.5    31.
0014220      0.0175 1487.9  762.2    5.0   366.     30.  191.5    31.
0014320      0.0175 1290.7  433.9    5.0   366.     30.  191.5    31.
0014420      0.0175 1192.1  269.8    5.0   366.     30.  191.5    31.
0015020      0.0380   268.   298.    5.0   411.     30.  1093.   268.
0016020      0.0100  -139.   139.    5.0   457.     30.   393.   135.
0017020      0.0160  1509.   387.    5.0   320.     30.   925.     4.
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2EAGLE MTN - SHORTZ - SOX - PROPOSED - NO MITIGATION - FINE GRID "B" - 1-HR AVG

  00  00  46  36  24   0 370
     0   0  00         3   1   0
    2126.6     2226.6     2326.6     2426.6     2526.6     2626.6     2037.0     2026.6
    2126.6     2226.6     2326.6     2426.6     2526.6     2626.6     2026.6     2126.6
    2226.6     2326.6     2426.6     2526.6     2626.6     2326.6     2426.6     2526.6
    2626.6     2262.0     2262.0     2326.6     2426.6     2526.6     2626.6     2226.6
    2326.6     2426.6     2526.6     2626.6     2226.6     2326.6     2426.6     2526.6
    2626.6     2226.6     2326.6     2426.6     2526.6     2626.6
    1210.0     1210.0     1210.0     1210.0     1210.0     1210.0     1231.0     1310.0
    1310.0     1310.0     1310.0     1310.0     1310.0     1310.0     1410.0     1410.0
    1410.0     1410.0     1410.0     1410.0     1410.0      410.0      410.0      410.0
     410.0      433.0      510.0      510.0      510.0      510.0      510.0      610.0
     610.0      610.0      610.0      610.0      710.0      710.0      710.0      710.0
     710.0      810.0      810.0      810.0      810.0      810.0
     308.0      305.0      305.0      305.0      305.0      305.0      310.9      313.0
     307.0      305.0      305.0      305.0      305.0      305.0      313.0      308.0
     305.0      305.0      305.0      305.0      305.0      310.0      307.0      305.0
     305.0      310.9      312.0      309.0      304.0      304.0      305.0      311.0
     308.0      304.0      305.0      305.0      311.0      308.0      306.0      304.0
     305.0      310.0      307.0      305.0      304.0      305.0
  .683          366.7
0001120       0.0445 2145.2  543.6     5.0   312.    111.    300.    164.
0001220       0.0445 2227.9  255.2     5.0   312.    111.    300.    164.
0001320       0.0445 2062.6  832.0     5.0   312.    111.    300.    164.
0001420       0.0445 1979.8 1120.4     5.0   312.    111.    300.    164.
0002020       2.0050-1039.3 1105.0     5.0   457.    380.    650.     90.
0003020       0.0930  0000.  0000.     5.0   457.    200.    380.     90.
0004020       0.0690 1478.8 -102.7     5.0   366.    140.    360.     90.
0005020       0.0000  0000.  0000.     4.0   457.     10.     50.     90.
0006100       0.2032 -4234.   227.   15.24   579.   1158. 130.58            1.8288
0006200       0.2033 -4123.   185.   15.24   549.   1158. 130.58            1.8288
0006300       0.2032 -2562.   354.   15.24   479.   1158. 130.58            1.8288
0006400       0.2033 -2434.   371.   15.24   472.   1158. 130.58            1.8288
0006500       0.2032  1318.   152.   15.24   351.   1158. 130.58            1.8288
0006600       0.2033  1438.   169.   15.24   340.   1158. 130.58            1.8288
0006700       0.2032  1565.   573.   15.24   335.   1158. 130.58            1.8288
0006800       0.2033  1569.   733.   15.24   335.   1158. 130.58            1.8288
0007120       0.0142 1799.0  943.0     5.0   320.     30.  111.5    249.
0007220       0.0143 1903.1  982.9     5.0   320.     30.  111.5    249.
0007320       0.0142 1694.6  903.0     5.0   320.     30.  111.5    249.
0007420       0.0143 1590.9  863.1     5.0   320.     30.  111.5    249.
0008020       0.0840  1380.  1360.     5.0   381.     30.  1083.    342.
0009120       0.0390  551.3 1636.1     5.0   457.     30.  452.3    250.
0009220       0.0390  919.8 1770.2     5.0   457.     30.  452.3    250.
0009320       0.0390  182.7 1501.9     5.0   457.     30.  452.3    250.
0009420       0.0390 -185.8 1367.8     5.0   457.     30.  452.3    250.
0010020       0.0180  -655.  1231.     5.0   518.     30.   330.    263.
0011020       0.0810  -844.   983.     5.0   457.     30.   460.    186.
0012020       0.1880  -030.   536.     5.0   396.     30.  1733.    105.
0013020       0.0200   983.   258.     5.0   335.     30.   352.    112.
0014120       0.0175 1389.3  598.1     5.0   366.     30.  191.5     31.
0014220       0.0175 1487.9  762.2     5.0   366.     30.  191.5     31.
0014320       0.0175 1290.7  433.9     5.0   366.     30.  191.5     31.
0014420       0.0175 1192.1  269.8     5.0   366.     30.  191.5     31.
0015020       0.0380   268.   298.     5.0   411.     30.  1093.    268.
0016020       0.0100  -139.   139.     5.0   457.     30.   393.    135.
0017020       0.0160  1509.   387.     5.0   320.     30.   925.      4.
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2EAGLE MTN - SHORTZ - SOX - PROPOSED - NO MITIGATION - COARSE GRID - 24-HR AVG

 00  00 278  36  24   0 370
     0   0  00        3   1   0
   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4   -5973.4
   -5973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4   -4973.4
   -4973.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4773.4   -4573.4
   -4573.4   -4573.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4   -4373.4
   -4373.4   -4173.4   -4173.4   -4173.4   -3973.4   -3973.4   -3973.4   -3973.4
   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3973.4   -3773.4
   -3773.4   -3773.4   -3773.4   -3773.4   -3573.4   -3573.4   -3573.4   -3373.4
   -3373.4   -3373.4   -3273.4   -3273.4   -3273.4   -3173.4   -3173.4   -3173.4
   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4   -2973.4
   -2973.4   -2973.4   -2973.4   -2973.4   -2773.4   -2773.4   -2773.4   -2573.4
   -2573.4   -2573.4   -2373.4   -2373.4   -2373.4   -2173.4   -2173.4   -2173.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4
   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1973.4   -1773.4
   -1773.4   -1773.4   -1773.4   -1773.4   -1773.4   -1573.4   -1573.4   -1573.4
   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4   -1573.4
   -1373.4   -1373.4   -1373.4   -1173.4   -1173.4   -1173.4   -1173.4   -1173.4
   -1173.4   -1173.4    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4
    -973.4    -973.4    -973.4    -973.4    -973.4    -973.4    -773.4    -773.4
    -773.4    -773.4    -773.4    -573.4    -573.4    -573.4    -573.4    -573.4
    -373.4    -373.4    -373.4    -373.4    -373.4    -373.4    -173.4    -173.4
    -173.4      26.6      26.6      26.6      26.6      26.6      26.6      26.6
      26.6      26.6      26.6      26.6      26.6     226.6     226.6     226.6
     426.6     426.6     426.6     426.6     626.6     626.6     626.6     826.6
     826.6     826.6    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6
    1026.6    1026.6    1026.6    1026.6    1026.6    1026.6    1226.6    1226.6
    1226.6    1426.6    1426.6    1426.6    1426.6    1626.6    1626.6    1626.6
    1626.6    1626.6    1626.6    1626.6    1626.6    1626.6    1826.6    1826.6
    1826.6    1826.6    2026.6    2026.6    2026.6    2026.6    2026.6    2037.0
    2026.6    2026.6    2026.6    2026.6    2026.6    2026.6    2226.6    2226.6
    2226.6    2226.6    2226.6    2226.6    2426.6    2426.6    2426.6    2426.6
    2426.6    2426.6    2626.6    2626.6    2626.6    2626.6    2626.6    2626.6
    2626.6    2626.6    2626.6    2626.6    2626.6    2262.0    2626.6    2826.6
    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6    2826.6
    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6    3026.6
    3026.6    3026.6    3226.6    3226.6    3226.6    3226.6
   -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
    5610.0   -2390.0   -1390.0    -390.0    1610.0    2610.0    3610.0    4610.0
    5610.0     410.0     610.0     810.0    1010.0    1210.0    1210.0     410.0
    1210.0    4810.0      10.0     210.0     410.0    1410.0    1610.0    1610.0
    4810.0      10.0    1610.0    4810.0   -2390.0   -1390.0    -390.0      10.0
     610.0    1610.0    2610.0    3610.0    4610.0    4810.0    5610.0      10.0
    1610.0    1810.0    2010.0    4810.0      10.0    2010.0    4810.0      10.0
    2010.0    4810.0    2010.0    2210.0    2410.0      10.0    2410.0    4810.0
   -2390.0   -1390.0    -390.0      10.0     610.0    1610.0    2410.0    2610.0
    3610.0    4610.0    4810.0    5610.0      10.0    2410.0    4810.0      10.0
    2410.0    4810.0      10.0    2410.0    4810.0      10.0    2410.0    4810.0
   -2390.0   -1390.0    -390.0    -190.0      10.0     210.0     410.0     610.0
    1610.0    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0
    -590.0     210.0     410.0    2410.0    4810.0   -1190.0    -990.0    -790.0
    -590.0    -390.0    -190.0      10.0     210.0     410.0    2410.0    4810.0
   -1190.0    2410.0    4810.0   -1190.0    -990.0    -790.0    -590.0    -390.0
    2410.0    4810.0   -2390.0   -1390.0    -390.0    -190.0     610.0    1610.0
    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -190.0    2010.0
    2210.0    2410.0    4810.0    -190.0    2010.0    2210.0    2410.0    4810.0
    -390.0    -190.0    2010.0    2210.0    2410.0    4810.0    -390.0    2410.0
    4810.0   -2390.0   -1390.0    -590.0    -390.0     610.0    1610.0    2410.0
    2610.0    3610.0    4610.0    4810.0    5610.0    -590.0    2410.0    4810.0
    -790.0    -590.0    2410.0    4810.0    -790.0    2410.0    4810.0    -790.0
    2410.0    4810.0   -2390.0   -1390.0    -790.0    -390.0     610.0    1610.0
    2410.0    2610.0    3610.0    4610.0    4810.0    5610.0    -790.0    2410.0
    4810.0    -990.0    -790.0    2410.0    4810.0   -1190.0    -990.0    1610.0
    1810.0    2010.0    2210.0    2410.0    4810.0    5010.0   -1390.0   -1190.0
    1610.0    5010.0   -2390.0   -1390.0    -390.0     610.0    1410.0    1231.0
    1610.0    2610.0    3610.0    4610.0    5010.0    5610.0   -1590.0     610.0
     810.0    1210.0    1410.0    5010.0   -1590.0     410.0     610.0     810.0
    1210.0    5010.0   -1590.0   -1390.0    -390.0    -190.0      10.0     210.0
     410.0     610.0     810.0    1010.0    1210.0     433.0    5010.0   -1390.0
   -1190.0    -990.0    -790.0    -590.0    -390.0    -190.0      10.0    5010.0
   -2390.0   -1390.0    -390.0     610.0    1610.0    2610.0    3610.0    4610.0
    5010.0    5610.0    5010.0    5210.0    5610.0    6010.0
     798.0     793.0     781.0     852.0     731.0     730.0     728.0     747.0
     625.0     797.0     731.0     652.0     771.0     792.0     904.0     858.0
     570.0     646.0     669.0     666.0     695.0     730.0     730.0     633.0
     722.0     853.0     609.0     554.0     583.0     694.0     756.0     756.0
     856.0     553.0     787.0     828.0     767.0     732.0     548.0     549.0
     722.4     773.0     875.0     914.0     954.0     838.0     686.0     549.0
     755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
     799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
     661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
     865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
     732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
     487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
     768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
     497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
     487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
     427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
     610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
     610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
     610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
     410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
     609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
     489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
     365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
     372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
     363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
     585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
     331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
     321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
     312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
     310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
     305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
     305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
     302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
     297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
     348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0001120     0.0200 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0200 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0200 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0200 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     0.7970-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.0390  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.0230 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.2032 -4234.   227.  15.24   579.  1158. 130.58        1.8288
0006200     0.2033 -4123.   185.  15.24   549.  1158. 130.58        1.8288
0006300     0.2032 -2562.   354.  15.24   479.  1158. 130.58        1.8288
0006400     0.2033 -2434.   371.  15.24   472.  1158. 130.58        1.8288
0006500     0.2032  1318.   152.  15.24   351.  1158. 130.58        1.8288
0006600     0.2033  1438.   169.  15.24   340.  1158. 130.58        1.8288
0006700     0.2032  1565.   573.  15.24   335.  1158. 130.58        1.8288
0006800     0.2033  1569.   733.  15.24   335.  1158. 130.58        1.8288
0007120     0.0060 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0060 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0060 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0060 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.0350  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.0165  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.0165  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.0165  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.0165 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0080  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.0340  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.0790  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0080   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0072 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0073 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0072 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0073 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0160   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0040  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0070  1509.   387.    5.0   320.    30.   925.     4.
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2EAGLE MTN - SHORTZ - SOX - PROPOSED - NO MITIGATION - FINE GRID "B" - 24-HR AVG

  00  00  46  36  24    0 370
       0   0  00       3   1   0
    2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2037.0    2026.6
    2126.6    2226.6    2326.6    2426.6    2526.6    2626.6    2026.6    2126.6
    2226.6    2326.6    2426.6    2526.6    2626.6    2326.6    2426.6    2526.6
    2626.6    2262.0    2262.0    2326.6    2426.6    2526.6    2626.6    2226.6
    2326.6    2426.6    2526.6    2626.6    2226.6    2326.6    2426.6    2526.6
    2626.6    2226.6    2326.6    2426.6    2526.6    2626.6
    1210.0    1210.0    1210.0    1210.0    1210.0    1210.0    1231.0    1310.0
    1310.0    1310.0    1310.0    1310.0    1310.0    1310.0    1410.0    1410.0
    1410.0    1410.0    1410.0    1410.0    1410.0     410.0     410.0     410.0
     410.0     433.0     510.0     510.0     510.0     510.0     510.0     610.0
     610.0     610.0     610.0     610.0     710.0     710.0     710.0     710.0
     710.0     810.0     810.0     810.0     810.0     810.0
     308.0     305.0     305.0     305.0     305.0     305.0     310.9     313.0
     307.0     305.0     305.0     305.0     305.0     305.0     313.0     308.0
     305.0     305.0     305.0     305.0     305.0     310.0     307.0     305.0
     305.0     310.9     312.0     309.0     304.0     304.0     305.0     311.0
     308.0     304.0     305.0     305.0     311.0     308.0     306.0     304.0
     305.0     310.0     307.0     305.0     304.0     305.0
   .683            366.7
0001120     0.0200 2145.2  543.6    5.0   312.   111.   300.   164.
0001220     0.0200 2227.9  255.2    5.0   312.   111.   300.   164.
0001320     0.0200 2062.6  832.0    5.0   312.   111.   300.   164.
0001420     0.0200 1979.8 1120.4    5.0   312.   111.   300.   164.
0002020     0.7970-1039.3 1105.0    5.0   457.   380.   650.    90.
0003020     0.0390  0000.  0000.    5.0   457.   200.   380.    90.
0004020     0.0230 1478.8 -102.7    5.0   366.   140.   360.    90.
0005020     0.0000  0000.  0000.    4.0   457.    10.    50.    90.
0006100     0.2032 -4234.   227.  15.24   579.  1158. 130.58         1.8288
0006200     0.2033 -4123.   185.  15.24   549.  1158. 130.58         1.8288
0006300     0.2032 -2562.   354.  15.24   479.  1158. 130.58         1.8288
0006400     0.2033 -2434.   371.  15.24   472.  1158. 130.58         1.8288
0006500     0.2032  1318.   152.  15.24   351.  1158. 130.58         1.8288
0006600     0.2033  1438.   169.  15.24   340.  1158. 130.58         1.8288
0006700     0.2032  1565.   573.  15.24   335.  1158. 130.58         1.8288
0006800     0.2033  1569.   733.  15.24   335.  1158. 130.58         1.8288
0007120     0.0060 1799.0  943.0    5.0   320.    30.  111.5   249.
0007220     0.0060 1903.1  982.9    5.0   320.    30.  111.5   249.
0007320     0.0060 1694.6  903.0    5.0   320.    30.  111.5   249.
0007420     0.0060 1590.9  863.1    5.0   320.    30.  111.5   249.
0008020     0.0350  1380.  1360.    5.0   381.    30.  1083.   342.
0009120     0.0165  551.3 1636.1    5.0   457.    30.  452.3   250.
0009220     0.0165  919.8 1770.2    5.0   457.    30.  452.3   250.
0009320     0.0165  182.7 1501.9    5.0   457.    30.  452.3   250.
0009420     0.0165 -185.8 1367.8    5.0   457.    30.  452.3   250.
0010020     0.0080  -655.  1231.    5.0   518.    30.   330.   263.
0011020     0.0340  -844.   983.    5.0   457.    30.   460.   186.
0012020     0.0790  -030.   536.    5.0   396.    30.  1733.   105.
0013020     0.0080   983.   258.    5.0   335.    30.   352.   112.
0014120     0.0072 1389.3  598.1    5.0   366.    30.  191.5    31.
0014220     0.0073 1487.9  762.2    5.0   366.    30.  191.5    31.
0014320     0.0072 1290.7  433.9    5.0   366.    30.  191.5    31.
0014420     0.0073 1192.1  269.8    5.0   366.    30.  191.5    31.
0015020     0.0160   268.   298.    5.0   411.    30.  1093.   268.
0016020     0.0040  -139.   139.    5.0   457.    30.   393.   135.
0017020     0.0070  1509.   387.    5.0   320.    30.   925.     4.
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ATTACHMENT 8-2

SHORTZ MODEL OUTPUT
FOR THE CRITERIA POLLUTANT ANALYSIS

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                    POSTZ                (DATED 86224)
1                                                                                                         POSTZ - PAGE NO.   1


                                          POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                   POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - NOX - 04/15/92 - MPV
                   SHORTZ RUN TITLE:  ********************************************************************************

                   ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                               0
                   ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                         0
                   ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                           0
                   ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)                0
                   ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                          0

              1-HOUR AVERAGE ANALYSIS:
                   ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                              1
                   ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                              0
                   ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                          0

              3-HOUR AVERAGE ANALYSIS:
                   ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                              0
                   ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                             0
                   ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                         0

              8-HOUR AVERAGE ANALYSIS:
                   ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                             0
                   ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                             0
                   ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                         0

              24-HOUR AVERAGE ANALYSIS:
                   ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                             0
                   ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                             0
                   ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                         0

              ANNUAL AVERAGE ANALYSIS:
                   ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                             0
                   ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                             0
                   ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                         0

              USER-SPECIFIED AVERAGING TIME ANALYSIS
                   ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                             0
                   ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                             0
                   ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                         0

                   ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                                  0
                   ISW(25) CALMS POLICY (1=YES,0=NO)                                                      0


                   JULIAN DAY FOR START OF ANALYSIS                                                       1
                   YEAR FOR START OF ANALYSIS                                                            91
                   JULIAN DAY FOR END OF ANALYSIS                                                         5
                   YEAR FOR END OF ANALYSIS                                                              92
1                                                                                                         POSTZ - PAGE NO.   2


                                             HIGH FIVE TABLE FOR      1 HOUR AVERAGES

 RECEPTOR COORDINATES                                             HIGHEST FIVE CONCENTRATIONS
      METERS                                                       VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.        HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
   -5973.     -2390.     798.       24.24(120,19)       14.58(151, 9)       12.85(106, 8)        7.82(137, 8)        5.23( 79, 9)
   -5973.     -1390.     793.       12.78( 51, 3)       10.47(103,17)        9.36( 93,17)        7.71(106, 7)        7.58(149, 8)
   -5973.      -390.     781.       54.99(  7,22)       29.08( 68, 6)       22.19( 77, 7)       21.61(124, 8)       17.13( 75, 7)
   -5973.       610.     852.       31.40( 74, 6)       12.50( 92, 8)       11.16(111, 8)       10.95( 77, 8)       10.90( 97,17)
   -5973.      1610.     731.       14.36( 74, 4)       12.66( 70, 7)       11.79( 77,19)       11.42(125,17)       10.63( 70, 9)
   -5973.      2610.     730.       18.98(135, 8)       17.84( 82, 8)       14.87(126, 8)       14.72( 74, 1)       14.25( 74, 8)
   -5973.      3610.     728.       36.93( 98,19)       23.32( 92, 7)       21.96(139,18)        9.85( 96, 7)        9.84(148, 9)
   -5973.      4610.     747.       38.67( 74, 4)       27.38(151, 8)       26.51( 70, 7)       19.99(140, 8)       19.45( 70, 8)
   -5973.      5610.     625.       35.47( 74, 2)       18.43( 84,23)       15.45(129,18)       15.42(140, 7)       13.50(120,18)
   -4973.     -2390.     797.       17.25(106, 7)       11.92(137, 8)       11.13(108, 8)        9.62(114, 8)        8.78( 71,16)
   -4973.     -1390.     731.       45.58(120,19)       24.22(106, 8)       20.29(151, 9)       20.00( 74, 5)       13.36( 50, 4)
   -4973.      -390.     652.       52.59(  7,22)       29.91(120,19)       25.60(151, 9)       25.41(117, 7)       24.56( 68, 6)
   -4973.      1610.     771.       27.27(100,19)       24.36(107,19)       17.36( 70, 9)       16.86( 95, 8)       16.63( 77, 6)
   -4973.      2610.     792.       30.50(112,19)       28.93(135, 8)       28.26(126, 8)       24.99( 88, 8)       19.76(136, 9)
   -4973.      3610.     904.       23.83( 70, 8)       23.57(146,17)       20.93( 96, 8)       19.48(122,18)       17.11(105,18)
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    -4973.       4610.    858.       22.91(129,18)         18.96(120,18)         15.66( 94,19)         13.37(122,18)         12.05(134, 9)
    -4973.       5610.    570.       20.07(145,18)         18.12(140, 7)         13.01(132,18)         11.91(120,18)         11.82(109, 8)
    -4773.        410.    646.       88.65( 95,19)         69.41(112,19)         61.44(135, 8)         60.76(126, 8)         54.76( 88, 8)
    -4773.        610.    669.       87.01( 74, 4)         78.94(151, 8)         67.75( 70, 7)         66.14( 44, 4)         66.10(100,18)
    -4773.        810.    666.       82.35( 77, 5)         71.89( 74, 6)         67.34(354, 6)         42.74( 44,23)         42.08( 74, 2)
    -4773.       1010.    695.       78.63( 74, 6)         63.97( 77, 5)         55.95( 74, 1)         42.67( 45,24)         42.22(132,18)
    -4773.       1210.    730.       42.53(100,19)         35.07(107,19)         28.17( 82, 7)         27.21( 74, 6)         24.01(144,17)
    -4773.       1210.    730.       42.53(100,19)         35.07(107,19)         28.17( 82, 7)         27.21( 74, 6)         24.01(144,17)
    -4573.        410.    633.      183.79( 98,19)        111.00(123,15)        104.94( 94, 8)        103.55(113, 9)         98.17( 72,21)
    -4573.       1210.    722.       35.57(  5,21)         35.15( 37,22)         29.79( 74, 6)         27.08(148,17)         25.90(153, 8)
    -4573.       4810.    853.       22.96(120,18)         15.41(145,18)         14.79(104, 8)         13.58(109, 8)         13.04( 94,19)
    -4373.         10.    609.      151.24( 50, 4)        109.60( 61,22)        106.13(107, 5)        102.44(  1,16)         98.49(  1,17)
    -4373.        210.    554.       48.24( 77, 5)         44.15( 72,20)         41.55(107, 2)         40.09( 77, 7)         39.93(354, 6)
    -4373.        410.    583.       77.18( 93,19)         69.83( 25,16)         65.67( 74,17)         65.52( 39,14)         64.96( 66,19)
    -4373.       1410.    694.       23.43(104, 4)         21.31(125,17)         21.16( 77,19)         20.78( 75,20)         19.66(150,17)
    -4373.       1610.    756.       25.61( 70, 9)         22.35( 68,20)         21.65( 92, 8)         20.59( 69, 7)         19.60( 88, 9)
    -4373.       1610.    756.       25.61( 70, 9)         22.35( 68,20)         21.65( 92, 8)         20.59( 69, 7)         19.60( 88, 9)
    -4373.       4810.    856.       23.93(145,18)         19.07(120,18)         15.97(104, 8)         15.86(109, 8)         14.52(132,18)
    -4173.         10.    553.       77.73(  7,22)         49.21(149, 1)         48.61(  1,11)         44.56(107, 3)         39.84( 27,17)
    -4173.       1610.    787.       30.41( 68,20)         29.45( 70, 9)         26.53( 92, 8)         22.80( 69, 7)         22.63( 74, 4)
    -4173.       4810.    828.       30.16(145,18)         23.80(132,18)         16.22(109, 8)         15.35(150, 9)         15.12(104, 8)
    -3973.      -2390.    767.       17.24(114, 8)         16.31(115, 8)         15.39(352, 6)         13.09( 74, 5)         12.76( 79, 8)
    -3973.      -1390.    732.       55.43(117, 7)         35.26( 51, 3)         27.15( 61,22)         22.03(106, 7)         21.15( 92, 6)
    -3973.       -390.    548.      108.80( 96,23)         54.89( 46, 3)         43.34(102, 2)         38.41(149, 1)         30.93(103,17)
    -3973.         10.    549.       82.91(149, 1)         75.32(  7,22)         45.86( 57, 3)         44.87( 48, 7)         43.52(  3, 4)
    -3973.        610.    722.      104.75( 28,20)        101.34(133, 1)         99.19( 37,23)         98.78( 51, 1)         98.35(366, 6)
    -3973.       1610.    773.       41.44( 68,20)         33.98( 70, 9)         32.56( 92, 8)         25.09(120,22)         25.06( 82, 8)
    -3973.       2610.    875.       51.89(139,18)         27.63(146,17)         23.20( 94, 8)         22.81(148, 9)         20.46(136,17)
    -3973.       3610.    914.       34.12(129,18)         28.54(122,18)         26.99(120,18)         23.45( 70, 8)         21.04(106,18)
    -3973.       4610.    954.       33.28(145,18)         27.66(132,18)         18.06(136,18)         17.99( 98,18)         16.24(104, 8)
    -3973.       4810.    838.       31.11(145,18)         30.97(132,18)         22.23(136,18)         22.15( 98,18)         17.33(150, 9)
    -3973.       5610.    686.       23.52( 74, 1)         22.46(100,19)         15.55( 82, 7)         14.33( 98,18)         14.31(136,18)
    -3773.         10.    549.      111.06(149, 1)         74.48(  7,22)         43.82( 68, 6)         42.95(107, 3)         36.31( 34,20)
    -3773.       1610.    755.       54.92( 68,20)         39.81( 92, 8)         39.27( 70, 9)         32.82( 82, 8)         27.26(366, 6)
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                                                  HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                 HIGHEST FIVE CONCENTRATIONS
      METERS                                                           VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.          HIGHEST              2ND HIGH              3RD HIGH              4TH HIGH              5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------------------
    -3773.       1810.    792.       67.05( 68,20)         50.08( 82, 8)         43.89( 92, 8)         37.38( 70, 9)         35.62(135, 8)
    -3773.       2010.    824.       48.13(126, 8)         40.17( 82, 8)         38.17( 88, 8)         37.71(136, 9)         36.21( 95,19)
    -3773.       4810.    839.       32.36(132,18)         26.02(136,18)         26.00(145,18)         25.95( 98,18)         16.68(150, 9)
    -3573.         10.    549.      124.47(149, 1)        100.14(  7,22)         76.25(107, 3)         52.55( 68, 6)         40.88( 75, 7)
    -3573.       2010.    848.       48.80( 88, 8)         42.71(136, 9)         37.37( 95,19)         36.66( 82, 8)         32.42(122,17)
    -3573.       4810.    852.       26.91(132,18)         24.24(136,18)         24.20( 98,18)         22.10(100,19)         17.14(145,18)
    -3373.         10.    549.      118.25(149, 1)         84.88( 96,23)         49.49(103,17)         45.10( 50, 6)         44.29(  7,22)
    -3373.       2010.    799.       65.82(112,19)         64.69(135, 8)         63.64(126, 8)         57.57( 88, 8)         46.72(139,18)
    -3373.       4810.    831.       35.73(100,19)         22.67( 82, 7)         22.20(107,19)         18.88(147,17)         17.57( 98,18)
    -3273.       2010.    787.       67.95(112,19)         64.38(126, 8)         63.45( 98,19)         63.42(135, 8)         60.21( 88, 8)
    -3273.       2210.    841.      107.48( 98,19)         81.68(139,18)         43.59( 96, 7)         39.56(146,17)         36.82(148, 9)
    -3273.       2410.    862.       62.26(146,17)         56.69(139,18)         50.66( 96, 8)         46.59( 70, 8)         37.64(105,18)
    -3173.         10.    567.      216.38( 96,23)        130.81( 46, 3)        129.68(102, 2)         70.06(103,17)         68.09( 93,17)
    -3173.       2410.    841.       89.44( 96, 7)         67.35(146,17)         62.30( 70, 8)         57.58( 96, 8)         51.33(122,18)
    -3173.       4810.    806.       40.35(100,19)         28.36( 77, 6)         28.30(107,19)         26.15( 95, 8)         22.73( 82, 7)
    -2973.      -2390.    661.       50.64(  3, 1)         49.48( 74, 5)         42.31( 74, 3)         22.14( 52, 4)         22.14( 69, 3)
    -2973.      -1390.    613.       57.41(352, 1)         37.08( 74, 3)         30.08( 68,21)         25.51(114, 8)         25.18(115, 8)
    -2973.       -390.    609.       90.30(107, 5)         85.47(117, 7)         76.88(120,19)         71.16( 61,22)         66.54( 50, 4)
    -2973.         10.    601.      164.06( 96,23)        146.56(120,19)         99.99(106, 8)         91.73(151, 9)         84.65(102, 2)
    -2973.        610.    579.      106.26( 77, 7)         95.44(  7,22)         93.56(107, 4)         92.94( 64, 2)         83.59(107,20)
    -2973.       1610.    823.       97.31( 68,20)         83.49( 82, 8)         72.75( 92, 8)         66.34( 70, 9)         60.17( 74, 8)
    -2973.       2410.    784.      133.52( 74, 4)        125.54(151, 8)        109.33( 70, 7)         96.08(140, 8)         92.54( 70, 8)
    -2973.       2610.    786.      140.55( 74, 4)        111.79( 70, 7)         87.29(151, 8)         85.39(122,18)         79.18( 70, 8)
    -2973.       3610.    865.       53.53(132,18)         52.15(145,18)         40.89(136,18)         40.74( 98,18)         31.44(150, 9)
    -2973.       4610.    770.       42.28(100,19)         37.50( 77, 6)         31.71( 95, 8)         30.87(107,19)         22.77( 82, 7)
    -2973.       4810.    747.       39.66( 77, 6)         34.10(100,19)         30.94( 95, 8)         27.68(107,19)         18.42(144,17)
    -2973.       5610.    642.       29.98(  5,21)         23.55( 77, 6)         21.86(148,17)         16.89(149,17)         16.10( 95, 8)
    -2773.         10.    609.      142.33( 96,23)        135.21(120,19)        102.25(  3, 1)         97.72( 74, 3)         93.55( 68,21)
    -2773.       2410.    731.      163.35( 74, 4)        137.52( 70, 7)        122.77(151, 8)        106.87(122,18)        103.31( 70, 8)
    -2773.       4810.    724.       40.56( 77, 6)         31.82(  5,21)         28.71( 95, 8)         26.41(148,17)         20.41(149,17)
    -2573.         10.    587.      156.13( 69, 5)        153.60(  2,24)        152.17(  2,23)        150.82(120,19)        149.95( 18, 1)
    -2573.       2410.    732.      166.83( 74, 2)        144.35( 74, 4)        114.87( 70, 7)         93.94(129,18)         92.92(122,18)
    -2573.       4810.    713.       38.44(  5,21)         29.65( 77, 6)         28.55(148,17)         22.06(149,17)         20.72(153, 8)
    -2373.         10.    574.      164.89(117, 7)        141.18(  1,21)        138.26( 33, 3)        134.38( 17, 2)        133.24( 30, 4)
    -2373.       2410.    726.      180.26( 74, 2)        130.88(120,18)        104.78(129,18)         99.74(133, 8)         83.82( 94,19)
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   -2373.     4810.    700.      34.79(  5,21)        26.65( 37,22)        25.65(153, 8)        24.86(152, 8)        21.87(148,17)
   -2173.       10.    564.     173.35(117, 7)       134.03( 51, 3)       121.55(352, 1)       117.97(106, 7)       114.88( 52, 2)
   -2173.     2410.    675.     111.18(120,18)       109.54( 74, 1)       101.49( 74, 2)        96.76(145,18)        93.13(132,18)
   -2173.     4810.    675.      28.40(152, 8)        28.11( 37,22)        27.06( 84,22)        23.78(104, 4)        23.73(153, 8)
   -1973.    -2390.    487.      54.86(363,22)        48.75(355, 4)        46.79(108, 5)        46.71(363,21)        44.08(351, 5)
   -1973.    -1390.    522.     107.29(351, 5)        76.85(  3, 5)        59.80(352, 2)        56.63(108, 5)        48.61(363,22)
   -1973.     -390.    487.     109.98(  3, 1)       107.01(117, 5)       106.72( 74, 5)       106.72( 74, 3)       102.76( 80,23)
   -1973.     -190.    526.     137.29(352, 1)       120.30(  3, 1)       116.52( 74, 3)       116.43(117, 5)       115.57( 74, 5)
   -1973.       10.    549.     131.58(352, 1)       130.75(  3, 1)       127.80( 74, 3)       106.41( 51, 3)       102.03(106, 7)
   -1973.      210.    549.     221.77(117, 7)       159.95( 51, 3)       151.99(107, 5)       145.05(352, 1)       143.46(106, 7)
   -1973.      410.    547.     255.19(120,19)       241.41(117, 7)       226.33( 96,23)       212.74( 85,22)       193.22( 60,22)
   -1973.      610.    479.     318.49(149, 1)       295.99( 96,23)       258.55(120,19)       229.36(139, 2)       222.14( 85,22)
   -1973.     1610.    768.     271.18( 74, 4)       266.23(151, 8)       235.11(139,18)       228.35( 70, 7)       228.24( 98,19)
   -1973.     2410.    675.     130.23( 74, 1)       108.66(132,18)       105.59(145,18)        95.59(100,19)        90.58( 77, 6)
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                                                 HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                  HIGHEST FIVE CONCENTRATIONS
       METERS                                                            VALUE(DAY,ENDING HOUR)

    X            Y         ELEV.          HIGHEST              2ND HIGH             3RD HIGH             4TH HIGH             5TH HIGH
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   -1973.     2610.    799.      96.38( 77, 6)        94.10(132,18)        88.72(100,19)        84.96(145,18)        84.29( 95, 8)
   -1973.     3610.    696.      59.13(  5,21)        46.54( 77, 6)        44.79(148,17)        43.36(153, 8)        42.75(152, 8)
   -1973.     4610.    628.      39.81(104, 4)        34.51(108, 4)        29.38( 84,22)        28.37( 75,20)        28.29(152, 8)
   -1973.     4810.    646.      39.36(104, 4)        28.04( 75,20)        26.91(125,18)        26.20( 84,22)        23.94(152, 8)
   -1973.     5610.    597.      34.10(104, 4)        29.56(108, 4)        29.04(107,24)        24.27( 75,20)        19.37(125,18)
   -1773.     -790.    529.     136.93(351, 5)        95.12( 74, 5)        95.09(  3, 5)        83.77(363,22)        77.42(108, 5)
   -1773.     -590.    497.     149.25(351, 5)       113.46(355, 4)       112.53(  3, 1)       110.83( 74, 5)       102.23(  3, 5)
   -1773.      210.    539.     160.58(  3, 1)       159.52(352, 1)       156.56( 74, 5)       155.61( 74, 3)       155.34(117, 5)
   -1773.      410.    491.     301.51( 93,20)       284.37(117, 7)       223.98(114,20)       216.24(355, 3)       209.05(107, 5)
   -1773.     2410.    668.     132.91( 74, 1)       116.80( 77, 6)       108.69(100,19)       106.09(132,18)       104.86( 95, 8)
   -1773.     4810.    609.      42.55(104, 4)        39.60(107,24)        36.88(108, 4)        30.28( 75,20)        25.50(107, 1)
   -1573.    -1190.    433.     107.34(363,21)        93.94(351, 5)        90.84(355, 4)        89.67(364, 1)        82.91(363,22)
   -1573.     -990.    459.     143.70(351, 5)       115.95(363,21)       110.59(355, 4)        90.28(364, 1)        88.75(363,22)
   -1573.     -790.    482.     153.23(351, 5)       125.92(363,21)       111.17(355, 4)        96.52(  3, 5)        96.51(363,22)
   -1573.     -590.    487.     155.51(351, 5)       137.11(363,21)       118.64(  3, 5)       117.39(355, 4)       105.92(363,22)
   -1573.     -390.    465.     170.27(351, 5)       146.93(363,21)       134.35( 74, 5)       129.33(355, 4)       118.70(  3, 5)
   -1573.     -190.    475.     189.75(351, 5)       163.65(  3, 1)       154.73( 74, 3)       144.23(355, 4)       142.22(117, 5)
   -1573.       10.    505.     215.51(351, 5)       163.97(355, 4)       156.95(117, 5)       154.47(  3, 1)       152.33( 74, 3)
   -1573.      210.    495.     247.96(351, 5)       220.27(352, 1)       188.87(355, 4)       174.03(  3, 1)       170.53( 80,23)
   -1573.      410.    482.     328.13( 93,20)       290.80(351, 5)       227.66(117, 7)       218.42(355, 4)       216.17( 51, 3)
   -1573.     2410.    648.     135.65( 77, 6)       116.13( 95, 8)       114.36(100,19)        98.33(104, 4)        98.12(  5,21)
   -1573.     4810.    609.      42.81(107,24)        37.22(113,23)        33.83(107, 1)        28.26(104, 4)        27.97(135,18)
   -1373.    -1190.    427.     109.97(363,21)       105.67(364, 1)        83.57(363,22)        69.07(135, 4)        65.98( 85,20)
   -1373.     2410.    609.     146.93( 96, 6)       109.84(  5,21)       105.20(113,23)       104.74(104, 4)       104.16(107,24)
   -1373.     4810.    575.      42.92(113,23)        36.20( 93, 6)        34.20(144,18)        33.43(107, 1)        32.54(135,18)
   -1173.    -1190.    423.     116.74(364, 1)       102.77(363,21)        83.79( 94, 1)        72.59( 73,24)        72.07(135, 4)
   -1173.     -990.    423.     136.92(363,21)       124.99(364, 1)        91.08( 94, 1)        83.09( 73,24)        78.99( 23, 5)
   -1173.     -790.    424.     159.53(363,21)       132.45(364, 1)        99.73( 94, 1)        94.93( 73,24)        87.10( 96,24)
   -1173.     -590.    425.     163.63(363,21)       142.09(364, 1)       110.18( 94, 1)       108.11( 73,24)        96.25(363,22)
   -1173.     -390.    425.     163.10(363,21)       156.65(364, 1)       144.85(363,22)       123.06( 94, 1)       122.88( 73,24)
   -1173.     2410.    610.     134.29( 96, 6)       128.95(144,18)       127.62(104, 4)       113.39(107,24)       111.55(100,22)
   -1173.     4810.    555.      50.61(123,23)        45.91(144,18)        40.41(104, 6)        36.06(113,23)        30.06(113,22)
    -973.    -2390.    407.      59.48( 94, 1)        55.50( 73,24)        46.65(364, 2)        45.66( 23, 4)        45.26( 85,21)
    -973.    -1390.    411.      84.49( 94, 1)        77.80( 73,24)        74.54(136, 6)        68.63( 77, 1)        65.77(364, 2)
    -973.     -390.    421.     173.31(364, 1)       128.35(135, 4)       126.67( 94, 1)       123.66( 92, 6)       123.66(124, 2)
    -973.     -190.    423.     223.78(364, 1)       164.04(363,21)       146.26(135, 4)       142.00( 94, 1)       141.04( 92, 6)
    -973.      610.    387.     745.80(351, 5)*      593.87(355, 4)*      398.17(364, 1)       396.72(352, 2)       382.57(  3, 5)
    -973.     1610.    594.     487.68(  3, 7)       359.23(359, 1)       359.06( 94, 6)       346.67( 77, 6)       328.24( 96, 6)
    -973.     2410.    610.     140.43(114, 3)       140.02(120,22)       138.00(144,18)       129.53(113,23)       127.29(114, 2)
    -973.     2610.    609.     122.98(120,22)       121.32(144,18)       120.04(114, 3)       111.80(114, 2)       109.46(113,23)
    -973.     3610.    609.      71.08(144,18)        63.30(104, 6)        62.74(100,22)        48.79(133,18)        47.05(113,22)
    -973.     4610.    551.      45.31(104, 6)        45.05(144,18)        36.41(123,23)        33.70(100,22)        33.67(113,22)
    -973.     4810.    549.      42.59(104, 6)        41.51(144,18)        32.09(123,23)        31.65(113,22)        31.22(133,18)
    -973.     5610.    549.      33.69(104, 6)        30.77(144,18)        25.03(113,22)        23.98(133,18)        20.28(123,23)
    -773.     -190.    420.     180.61( 73,24)       166.21(136, 6)       157.12( 77, 1)       150.98( 94, 5)       150.98( 97,23)
    -773.     2010.    603.     291.65(  3, 7)       196.34(359, 1)       189.14(366, 6)       188.35( 70, 6)       187.11(114, 5)
    -773.     2210.    610.     170.88(  3, 7)       162.21(366, 6)       157.73( 97, 5)       157.71(120,22)       157.34(114, 4)
    -773.     2410.    610.     142.02(366, 6)       138.00( 97, 5)       137.58(114, 4)       136.47(120,22)       136.28(114, 3)
    -773.     4810.    549.      43.88(100,22)        33.03( 81,22)        30.25(107,22)        28.51( 84,20)        26.26(104, 6)
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                                                 HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)
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RECEPTOR COORDINATES                                   HIGHEST FIVE CONCENTRATIONS
      METERS                                             VALUE(DAY,ENDING HOUR)

    X          Y       ELEV.        HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
----------------------------------------------------------------------------------------------------------------------------
      -573.      -190.    417.     148.82( 92, 6)     148.82(124, 2)     147.23( 87,22)     147.23(132,24)     147.11(153, 2)
      -573.      2010.    593.     268.20(  3, 7)     194.65(114, 4)     187.98(366, 6)     187.24(359, 1)     180.13(114, 3)
      -573.      2210.    609.     234.64(  3, 7)     181.02(114, 3)     162.41(359, 1)     155.16(366, 6)     152.14(114, 4)
      -573.      2410.    610.     204.30(  3, 7)     157.25(114, 3)     149.91(120,22)     136.29(114, 2)     135.78(366, 6)
      -573.      4810.    572.      49.72(120,22)      45.25(100,22)      45.20(114, 2)      41.43(114, 1)      36.78(134,18)
      -373.      -390.    410.     145.91( 98,21)     138.24(125, 1)     131.33( 92,24)     131.33(135, 6)     126.44(352, 3)
      -373.      -190.    418.     167.58( 92,24)     167.58(135, 6)     165.15(352, 3)     165.15(352, 4)     162.86(125, 1)
      -373.      2010.    564.     254.86(  3, 7)     177.59( 77, 4)     172.93(359, 1)     170.56( 97, 6)     170.56(146,18)
      -373.      2210.    594.     219.31(  3, 7)     157.10( 97, 5)     151.36(359, 1)     141.69( 97, 6)     141.69(146,18)
      -373.      2410.    599.     195.51(  3, 7)     155.98(366, 6)     146.86( 97, 5)     143.24(114, 4)     134.67(359, 1)
      -373.      4810.    598.      54.06(120,22)      51.98(114, 3)      49.14(114, 2)      45.05(114, 1)      40.89(134,18)
      -173.      -390.    402.     137.25(124, 3)     133.88(128,21)     132.03( 87,22)     132.03(132,24)     126.85( 97, 4)
      -173.      2410.    502.     189.22(  3, 7)     131.50( 77, 4)     131.50(115, 2)     131.50(115, 4)     127.16(359, 1)
      -173.      4810.    609.      52.85(114, 3)      42.27(120,22)      38.43(114, 2)      35.23(114, 1)      34.10(114, 4)
        27.     -2390.    366.      59.90( 98,21)      48.90(153, 7)      46.19(125, 1)      45.13( 17, 1)      43.54( 97, 2)
        27.     -1390.    366.      84.10(125, 1)      82.03( 92,24)      81.90(135, 6)      79.52(352, 3)      79.52(352, 4)
        27.      -590.    384.     117.33(153, 2)     114.18( 87,22)     114.18(132,24)     108.19(124, 3)     105.58(117, 6)
        27.      -390.    392.     146.51(117, 6)     144.93(153, 2)     136.43( 87,22)     136.43(132,24)     129.24(124, 6)
        27.       610.    293.     273.44( 70, 5)     273.40( 73,23)     273.34( 70, 4)     273.31(133,19)     273.31(151, 7)
        27.      1610.    502.     292.04(144,19)     290.72( 70, 2)     290.48( 63, 1)     285.89(106, 3)     278.84( 77,22)
        27.      2410.    428.     152.37(  3, 7)     129.81(359, 1)     126.67( 70, 6)     123.85(115, 3)     123.85(115,20)
        27.      2610.    489.     181.59(  3, 7)     115.40(114,21)     114.73(114, 5)     113.05(359, 1)     107.65( 70, 6)
        27.      3610.    555.      75.18( 97, 5)      74.76(366, 6)      70.70(  3, 7)      65.45( 77, 4)      63.66( 97, 6)
        27.      4610.    605.      55.13(366, 6)      54.39(114, 4)      49.95( 97, 5)      33.69(  3, 8)      29.43( 40, 5)
        27.      4810.    609.      50.31(114, 4)      49.45(366, 6)      41.07( 97, 5)      31.65(114, 3)      29.10(  3, 8)
        27.      5610.    487.      41.36(115, 6)      40.22(114, 3)      29.54( 92,20)      28.76(110, 4)      25.65(120,22)
       227.      -590.    373.     122.93(127, 3)     112.43(146,20)     111.84(140,24)     110.47(117, 6)     104.65( 39,23)
       227.      2410.    426.     127.77( 91,23)     119.00(115, 5)     118.64(125,19)     116.98(104,21)     116.42( 88, 2)
       227.      4810.    608.      53.55(366, 6)      51.35(114, 4)      50.79( 97, 5)      31.96(  3, 8)      29.53(113,24)
       427.      -790.    365.     108.91(127, 3)      96.38( 94, 4)      96.38( 95, 6)      96.38(147, 3)      92.02(137, 6)
       427.      -590.    366.     111.07( 94, 4)     111.07( 95, 6)     111.07(147, 3)     111.05(114,23)     110.80( 77, 3)
       427.      2410.    424.     165.24(115, 5)     161.44( 98, 3)     161.44(134, 6)     142.69(134, 7)     127.38( 91,23)
       427.      4810.    575.      48.58( 97, 5)      45.60(366, 6)      38.06(113,24)      33.98(114, 4)      33.95( 97, 6)
       627.      -790.    360.      96.91(114,23)      96.88( 94, 4)      96.88( 95, 6)      96.88(147, 3)      96.59( 77, 3)
       627.      2410.    408.     153.37(132,19)     152.47( 98, 3)     152.45(134, 6)     145.78(115, 5)     142.44(148, 6)
       627.      4810.    548.      40.64( 97, 6)      40.64(146,18)      38.43( 77, 4)      38.16(109, 1)      37.26(113,24)
       827.      -790.    355.     147.90(137, 5)     134.45(138, 1)     124.18(126, 2)     123.25(149,20)     123.25(153, 5)
       827.      2410.    372.     145.63(106, 1)     145.63( 92, 1)     145.63(122,20)     142.30(132,19)     132.92(148,18)
       827.      4810.    563.      64.55(  3, 7)      47.61( 77, 4)      45.25(114, 5)      36.47( 74, 7)      36.47(122,19)
      1027.     -2390.    339.      53.30(153, 2)      51.23(117, 6)      49.37( 87,22)      48.69(132,24)      45.69( 87, 3)
      1027.     -1390.    346.      73.31( 94, 4)      73.26( 95, 6)      73.26(147, 3)      71.88(114,23)      69.18(128,24)
      1027.      -790.    350.     128.58( 98, 4)     128.45( 97,24)     128.40(153,22)     128.29(151,24)     128.28( 98, 6)
      1027.      -390.    351.     143.25(114, 6)     140.13( 98, 5)     139.77(127, 2)     137.42(298, 6)     136.38( 92, 4)
      1027.       610.    320.     178.19(149, 1)     157.73(134, 1)     156.86( 91,21)     156.86(135,21)     152.99(149,19)
      1027.      1610.    398.     584.54( 74, 4)     516.92( 70, 7)     512.26(151, 8)     478.53(123,22)     458.53(122,18)
      1027.      2410.    363.     136.87(148,18)     134.47( 87, 1)     127.56(134, 4)     123.09( 92, 1)     123.09(106, 1)
      1027.      2610.    365.     129.17(132,19)     123.00(106, 1)     123.00( 92, 1)     123.00(122,20)     117.43(118,24)
      1027.      3610.    422.      57.22(103,19)      56.73(104, 5)      49.91( 92, 2)      48.59(115,22)      45.14( 90, 4)
      1027.      4610.    541.      77.94(  3, 7)      48.27( 70, 6)      47.44(114, 5)      45.08(359, 1)      42.02( 77, 4)
1
                                                                                          POSTZ - PAGE NO.    6


                                      HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                   HIGHEST FIVE CONCENTRATIONS
      METERS                                             VALUE(DAY,ENDING HOUR)

    X          Y       ELEV.        HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
----------------------------------------------------------------------------------------------------------------------------
      1027.      4810.    548.      73.86(  3, 7)      47.41(114, 5)      45.96( 77, 4)      41.47( 70, 6)      38.20( 74, 7)
      1027.      5610.    600.      30.80( 97, 6)      30.78(146,18)      29.07( 77, 4)      26.56(113,24)      21.99( 73,19)
      1227.      -790.    344.     111.50(114, 6)     111.26(127, 2)     106.61(298, 6)     105.57( 98, 5)     105.03( 97,24)
      1227.      2410.    355.     126.73(134, 4)     122.18( 63, 1)     120.48( 87, 1)     109.03(144,19)     106.41(148,18)
      1227.      4810.    585.      69.25(  3, 7)      46.14( 70, 6)      44.42(359, 1)      37.65(114, 5)      36.57(133, 7)
      1427.      -990.    337.     101.77(127, 2)      99.35(114, 6)      97.68( 97,24)      97.44(151,24)      97.41( 98, 6)
      1427.      -790.    338.     107.08( 98, 5)     105.60( 92, 4)     105.60(123, 2)     105.60(150, 7)     104.21(114, 6)
      1427.      2410.    346.     119.62(144,19)     118.96( 63, 1)     113.18( 70, 2)      98.95(106, 3)      96.94(134, 4)
      1427.      4810.    588.      43.33(359, 1)      41.07( 70, 6)      39.12(  3, 7)      37.26( 92, 2)      34.37( 10, 3)
      1627.     -1190.    331.      92.68(127, 2)      90.99( 97,24)      90.65(151,24)      90.59( 98, 6)      87.10(114, 6)
      1627.      -990.    332.      96.58( 98, 5)      95.01(114, 6)      91.87( 92, 4)      91.87(123, 2)      91.87(150, 7)
      1627.      1610.    331.     140.10( 70, 1)     134.94(115,19)     111.24( 82, 4)     104.11(100,20)     102.34(150,23)
      1627.      1810.    331.     155.81(359, 3)     142.16( 93, 4)     125.76(153, 3)     125.63( 70, 1)     115.62(100,20)
      1627.      2010.    332.     203.85(150,19)     181.87( 88, 3)     168.96( 97, 5)     148.17( 94,21)     141.93( 84, 1)
      1627.      2210.    333.     122.95( 89,20)     121.67( 95, 5)     120.45(135,23)     118.19(114, 4)     117.26( 88, 6)
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   1627.        2410.     337.       112.64( 70, 2)      111.02(106, 3)      106.29(144,19)      102.25( 88, 6)      101.97( 77,22)
   1627.        4810.     532.        39.87( 92, 2)       36.34(103,19)       36.17( 90, 4)       31.64(359, 1)       31.44(104, 5)
   1627.        5010.     533.        37.44(359, 1)       36.50( 92, 2)       33.15( 90, 4)       32.91( 70, 6)       30.12( 10, 3)
   1827.       -1390.     325.        84.53( 97,24)       84.08(151,24)       83.98( 98, 6)       83.51(127, 2)       78.10( 98, 4)
   1827.       -1190.     326.        87.20(114, 6)       86.57( 98, 5)       83.28(298, 6)       82.69(127, 2)       78.62( 92, 4)
   1827.        1610.     321.       125.12(115,19)      116.71( 70, 1)       97.22( 82, 4)       95.36(150,23)       90.76( 96, 6)
   1827.        5010.     486.        36.91( 92, 2)       35.86(115, 3)       35.31(103,19)       33.56( 90, 4)       31.36(104, 5)
   2027.       -2390.     309.        49.11(114,23)       47.10( 94, 4)       46.90( 95, 6)       46.90(147, 3)       44.88( 77, 3)
   2027.       -1390.     320.        79.89(114, 6)       77.18(127, 2)       76.79( 98, 5)       76.13(298, 6)       69.36(137, 3)
   2027.        -390.     322.       155.98( 70, 4)      141.61( 70, 5)      135.25( 83,24)      128.66(127, 1)      124.07( 73,23)
   2027.         610.     317.       166.21(114,23)      149.78( 94, 4)      149.78( 95, 6)      149.78(147, 3)      135.75(151, 6)
   2027.        1410.     313.       162.90(104, 5)      157.90(103,19)      123.32( 92, 2)      113.74( 89,21)      113.74( 95, 1)
   2037.        1231.     311.       253.37(114, 5)      240.70(115, 2)      240.70(115, 4)      240.63( 77, 4)      214.03(  3, 7)
   2027.        1610.     312.       122.92( 70, 6)      116.28(115,19)      100.86(115, 3)      100.83(115,20)       93.70( 70, 1)
   2027.        2610.     327.        95.18( 70, 2)       93.06(106, 3)       88.29(144,19)       82.83( 88, 6)       82.56( 77,22)
   2027.        3610.     342.        76.40( 98, 3)       74.14(134, 6)       67.79(115, 5)       57.05(148, 6)       51.44( 81, 5)
   2027.        4610.     440.        43.84(115,22)       32.11(104, 5)       31.39(  2,20)       26.57(  9,23)       25.62(120,22)
   2027.        5010.     469.        35.99(103,19)       35.91(104, 5)       28.54( 92, 2)       27.37(115,22)       25.95( 90, 4)
   2027.        5610.     515.        30.24(359, 1)       30.10( 92, 2)       27.67( 90, 4)       25.43( 70, 6)       24.96(133, 1)
   2227.       -1590.     313.        72.70(114, 6)       72.11(127, 2)       69.15(298, 6)       67.14( 98, 5)       65.65( 97,24)
   2227.         610.     311.       155.56( 98, 4)      155.56(153,22)      153.82(151, 6)      150.04(123, 4)      146.82( 97,24)
   2227.         810.     310.       194.81(136, 5)      194.81(124, 5)      194.81(153,23)      175.22(123, 4)      154.87(359, 2)
   2227.        1210.     305.       255.93( 87, 1)      249.42(134, 4)      249.16(148,18)      219.81(122,20)      219.81( 92, 1)
   2227.        1410.     305.       125.73(115, 5)      110.59( 91,23)      105.65( 89,21)      105.65( 95, 1)      102.69(125,19)
   2227.        5010.     438.        39.07(115,22)       33.32(104, 5)       28.72(103,19)       25.11(120,22)       23.31(114, 2)
   2427.       -1590.     309.        71.86( 98, 5)       67.87( 92, 4)       67.87(123, 2)       67.87(150, 7)       67.14(114, 6)
   2427.         410.     307.       125.63(125,20)      121.42(135,21)      121.39( 91,21)      108.22(151, 6)       96.64(152,22)
   2427.         610.     304.       140.84( 92, 5)      133.26( 77, 2)      133.26( 94, 3)      132.27( 93, 2)      128.26(151, 6)
   2427.         810.     305.       167.43(136, 5)      167.43(153,23)      167.43(124, 5)      144.85(123, 4)      130.59(359, 2)
   2427.        1210.     305.       220.32( 95, 5)      220.32( 89,20)      217.01(135,23)      189.72( 88, 6)      189.71( 77,22)
   2427.        5010.     426.        42.89(115,22)       28.05(  2,20)       24.03(114, 3)       23.78(  9,23)       23.17(104, 5)
   2627.       -1590.     304.        68.95( 94, 3)       68.78( 77, 2)       68.34( 92, 4)       68.34(123, 2)       68.34(150, 7)
   2627.       -1390.     304.        75.07( 93, 2)       73.23( 92, 5)       66.46( 95, 4)       66.39( 73,22)       66.39( 85, 1)
   2627.        -390.     305.       102.27(151, 7)      102.26(133,19)       93.79( 70, 3)       93.79( 73,21)       69.90( 23, 3)
1                                                                                                      POSTZ - PAGE NO.    7


                                            HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
       METERS                                                   VALUE(DAY,ENDING HOUR)

     X             Y       ELEV.         HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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   2627.        -190.     304.        94.04(134,20)       88.35( 70, 3)       88.34( 73,21)       79.79(140,23)       77.73( 94, 4)
   2627.          10.     305.       108.17(140,23)      101.51(149,19)       95.22(134,20)       88.69(134, 1)       83.25( 10, 2)
   2627.         210.     305.       110.97(134, 1)      103.94(135,21)      103.91( 91,21)      100.91(149,19)       89.45(125,20)
   2627.         410.     305.       110.74(125,20)      102.68(151, 6)      101.69( 92, 4)      101.69(123, 2)      101.69(150, 7)
   2627.         610.     305.       120.30(123, 4)      112.14(151, 6)       83.75(149,24)       81.70(135,20)       79.77(125,20)
   2627.         810.     305.       149.58(136, 5)      149.56(153,23)      149.56(124, 5)      120.19(123, 4)      113.10(359, 2)
   2627.        1010.     305.       120.54(359, 5)      119.42(123,21)      113.79( 99,21)      109.71( 89,21)      109.28( 95, 1)
   2627.        1210.     305.       147.80( 88, 3)      141.73(150,19)      103.25( 93, 4)       97.54(123,21)       86.20(359, 5)
   2262.         433.     311.       167.94( 77, 3)      152.67(145,19)      148.62(137, 5)      145.98(134,21)      145.98(146,23)
   2627.        5010.     380.        38.53(115,22)       27.92(  2,20)       26.50(  9,23)       24.02(115, 6)       22.71( 50, 2)
   2827.       -1390.     301.        72.63( 95, 4)       72.53( 73,22)       72.53( 85, 1)       68.84(109, 4)       64.97( 93, 2)
   2827.       -1190.     302.        75.49(138, 5)       75.48(123, 1)       63.86(109, 4)       63.61(123, 3)       63.61(134,19)
   2827.        -990.     302.        82.24( 73,23)       78.84(123, 3)       78.84(134,19)       73.88( 70, 5)       68.72( 88, 5)
   2827.        -790.     302.        98.90( 70, 4)       90.57( 70, 5)       79.46( 83,24)       74.56( 73,23)       70.65( 92, 3)
   2827.        -590.     303.        83.08(151, 7)       83.08(133,19)       75.78(127, 1)       67.61(133, 6)       65.31( 23, 3)
   2827.        -390.     303.        93.42( 70, 3)       93.42( 73,21)       90.48(151, 7)       90.47(133,19)       71.82(134,20)
   2827.        -190.     303.        86.89(134,20)       77.69(140,23)       70.22( 70, 3)       70.22( 73,21)       68.47(149,19)
   2827.          10.     303.        97.85(149,19)       97.24(140,23)       90.74(134, 1)       75.14( 10, 2)       72.36(134,20)
   2827.        5010.     358.        28.99( 88, 2)       28.55(104,21)       24.64(  9,23)       24.54(115,22)       23.80(107,23)
   3027.       -2390.     297.        53.40( 97,24)       52.55(127, 2)       52.37(151,24)       51.84( 98, 6)       46.53( 98, 4)
   3027.       -1390.     298.        67.15(109, 4)       58.59(138, 5)       58.57(123, 1)       55.26( 95, 4)       55.17( 73,22)
   3027.        -390.     300.        82.42( 70, 3)       82.42( 73,21)       78.77(134,20)       73.09(151, 7)       73.09(133,19)
   3027.         610.     301.        99.73(123, 4)       84.25(151, 6)       74.35(149,24)       69.85(136, 5)       69.75(153,23)
   3027.        1610.     302.        83.75( 63, 1)       78.11(144,19)       66.13(115,19)       63.68(134, 4)       61.31( 70, 2)
   3027.        2610.     303.        75.71(149,18)       66.85( 84, 1)       58.94(150,19)       58.89(135,23)       50.60(139, 6)
   3027.        3610.     305.        57.79( 87, 1)       54.73(148,18)       52.54(134, 4)       42.14(120,20)       41.01(150,18)
   3027.        4610.     333.        49.91(115, 5)       47.53( 98, 3)       41.77(134, 6)       38.85(116, 3)       34.49( 59, 1)
   3027.        5010.     348.        34.67( 88, 2)       29.14( 91,23)       28.75(108,24)       27.30(104,21)       27.12(125,19)
   3027.        5610.     372.        40.34(115,22)       23.78(  2,20)       20.43(  9,23)       20.25(363, 3)       19.14( 93,22)
   3227.        5010.     338.        33.30(115, 5)       32.12( 91,23)       29.84(125,19)       29.16( 88, 2)       26.95(116, 3)
   3227.        5210.     345.        32.58( 88, 2)       26.58(108,24)       26.48( 91,23)       25.35(104,21)       24.66(125,19)
   3227.        5610.     362.        31.96(115,22)       24.85(115, 1)       22.43(  2,20)       22.07(  9,23)       19.65(363, 3)
   3227.        6010.     373.        39.17(115,22)       21.95(115, 1)       19.31(  2,20)       18.66(363, 3)       17.77(104, 5)

 * - DENOTES PEAK VALUE
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          POSTZ              (DATED 86224)
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                                          POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                    POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - NOX - 04/15/92 - MPV
                    SHORTZ RUN TITLE:  ********************************************************************************

                    ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                                 0
                    ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                           0
                    ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                             0
                    ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)                  0
                    ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                            0

               1-HOUR AVERAGE ANALYSIS:
                    ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                                1
                    ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                                0
                    ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                            0

               3-HOUR AVERAGE ANALYSIS:
                    ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                                0
                    ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                               0
                    ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

               8-HOUR AVERAGE ANALYSIS:
                    ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                               0
                    ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                               0
                    ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

               24-HOUR AVERAGE ANALYSIS:
                    ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                               0
                    ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                               0
                    ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

               ANNUAL AVERAGE ANALYSIS:
                    ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                               0
                    ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                               0
                    ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

               USER-SPECIFIED AVERAGING TIME ANALYSIS
                    ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                               0
                    ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                               0
                    ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

                    ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                                    0
                    ISW(25) CALMS POLICY (1=YES,0=NO)                                                        0


                    JULIAN DAY FOR START OF ANALYSIS                                                         1
                    YEAR FOR START OF ANALYSIS                                                              91
                    JULIAN DAY FOR END OF ANALYSIS                                                           5
                    YEAR FOR END OF ANALYSIS                                                                92
1
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                                            HIGH FIVE TABLE FOR     1 HOUR AVERAGES

 RECEPTOR COORDINATES                                       HIGHEST FIVE CONCENTRATIONS
      METERS                                                 VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.        HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
------------------------------------------------------------------------------------------------------------------------------------
   -1973.        10.     549.     131.58(352, 1)     130.75(  3, 1)     127.80( 74, 3)     106.41( 51, 3)     102.03(106, 7)
   -1973.       110.     549.     172.53(117, 7)     151.15( 51, 3)     137.55(352, 1)     132.65(106, 7)     126.47( 74, 3)
   -1973.       210.     549.     221.77(117, 7)     159.95( 51, 3)     151.99(107, 5)     145.05(352, 1)     143.46(106, 7)
   -1973.       310.     548.     236.83(117, 7)     198.51(120,19)     182.20( 85,22)     175.06(107, 5)     167.60( 51, 3)
   -1973.       410.     547.     255.19(120,19)     241.41(117, 7)     226.33( 96,23)     212.74( 85,22)     193.22( 60,22)
   -1873.        10.     548.     140.55(352, 1)     137.17(  3, 1)     132.88( 74, 3)     132.80( 74, 5)     132.72(117, 5)
   -1873.       110.     549.     145.64(  3, 1)     144.55(352, 1)     141.10( 74, 3)     132.44( 74, 5)     125.30( 51, 3)
   -1873.       210.     546.     206.36(117, 7)     168.19( 51, 3)     151.89(352, 1)     151.59(  3, 1)     149.20(106, 7)
   -1873.       310.     534.     269.02( 93,20)     250.57(117, 7)     181.97(107, 5)     177.08( 51, 3)     160.20(362, 1)
   -1873.       410.     512.     283.59( 93,20)     265.38(117, 7)     257.26(120,19)     225.09( 85,22)     194.10(107, 5)
   -1773.        10.     548.     169.67(352, 1)     142.54(  3, 1)     138.75( 74, 5)     138.25(117, 5)     138.25( 74, 3)
   -1773.       110.     549.     155.01(352, 1)     151.02(  3, 1)     147.33( 74, 5)     146.40( 74, 3)     129.31(  3, 5)
   -1773.       210.     539.     160.58(  3, 1)     159.52(352, 1)     156.56( 74, 5)     155.61( 74, 3)     155.34(117, 5)
   -1773.       310.     511.     285.63( 93,20)     247.35(117, 7)     195.59(355, 3)     188.05( 51, 3)     171.37(  3, 1)
   -1773.       410.     491.     301.51( 93,20)     284.37(117, 7)     223.98(114,20)     216.24(355, 3)     209.05(107, 5)
   -1673.         10.    548.      210.12(351, 5)      161.93(352, 1)      147.71(  3, 1)      144.07(117, 5)      144.06(  3, 5)
   -1673.        110.    543.      221.76(351, 5)      191.76(352, 1)      156.70(  3, 1)      153.75(  3, 5)      152.44( 74, 5)
   -1673.        210.    520.      218.19(351, 5)      171.82(352, 1)      167.01(  3, 1)      164.34(  3, 5)      162.90( 74, 5)
   -1673.        310.    496.      271.34( 93,20)      178.80(  3, 1)      178.76( 51, 3)      178.01(352, 1)      174.91( 74, 5)
   -1673.        410.    487.      322.62( 93,20)      296.17(117, 7)*     229.04(355, 3)      212.38( 51, 3)      199.06(114,20)
   -1573.         10.    505.      215.51(351, 5)      163.97(355, 4)      156.95(117, 5)      154.47(  3, 1)      152.33( 74, 3)
   -1573.        110.    504.      230.59(351, 5)      182.20( 80,23)      175.54(355, 4)      175.19(352, 1)      163.19(  3, 1)
   -1573.        210.    495.      247.96(351, 5)      220.27(352, 1)      188.87(355, 4)      174.03(  3, 1)      170.53( 80,23)
   -1573.        310.    485.      268.14(351, 5)      204.21(355, 4)      192.73(352, 1)      186.84(  3, 1)      184.04(  3, 5)
   -1573.        410.    482.      328.13( 93,20)*     290.80(351, 5)      227.66(117, 7)      218.42(355, 4)      216.17( 51, 3)

 * - DENOTES PEAK VALUE
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          POSTZ               (DATED 86224)
1                                                                                          POSTZ - PAGE NO.    1



                                      POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

          POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - NOX - 04/13/92 - MPV
          SHORTZ RUN TITLE:  ********************************************************************************

          ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                            0
          ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                      0
          ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                        0
          ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)             0
          ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                       0

      1-HOUR AVERAGE ANALYSIS:
          ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                           0
          ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                           0
          ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                       0

      3-HOUR AVERAGE ANALYSIS:
          ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                           0
          ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                          0
          ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                      0

      8-HOUR AVERAGE ANALYSIS:
          ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                          0
          ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                          0
          ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                      0

      24-HOUR AVERAGE ANALYSIS:
          ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                          0
          ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                          0
          ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                      0

      ANNUAL AVERAGE ANALYSIS:
          ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                          1
          ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                          0
          ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                      0

      USER-SPECIFIED AVERAGING TIME ANALYSIS
          ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                          0
          ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                          0
          ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                      0

          ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                               0
          ISW(25) CALMS POLICY (1=YES,0=NO)                                                   0


          JULIAN DAY FOR START OF ANALYSIS                                                    1
          YEAR FOR START OF ANALYSIS                                                         91
          JULIAN DAY FOR END OF ANALYSIS                                                      5
          YEAR FOR END OF ANALYSIS                                                           92
1                                                                                          POSTZ - PAGE NO.    2



                                         HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
      METERS                                                  VALUE(DAY,ENDING HOUR)

   X          Y       ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
---------------------------------------------------------------------------------------------------------------------------
   -5973.     -2390.    798.       0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -5973.     -1390.    793.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -5973.      -390.    781.       0.05(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -5973.       610.    852.       0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -5973.      1610.    731.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -5973.      2610.    730.       0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -5973.      3610.    728.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -5973.      4610.    747.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -5973.      5610.    625.       0.11(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4973.     -2390.    797.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4973.     -1390.    731.       0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4973.      -390.    652.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4973.      1610.    771.       0.21(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4973.      2610.    792.       0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4973.      3610.    904.       0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4973.     4610.    858.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4973.     5610.    570.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4773.      410.    646.       0.66(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4773.      610.    669.       0.83(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4773.      810.    666.       0.61(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4773.     1010.    695.       0.44(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4773.     1210.    730.       0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4773.     1210.    730.       0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4573.      410.    633.       1.45(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4573.     1210.    722.       0.33(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4573.     4810.    853.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4373.       10.    609.       0.67(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4373.      210.    554.       0.22(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4373.      410.    583.       0.98(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4373.     1410.    694.       0.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4373.     1610.    756.       0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4373.     1610.    756.       0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4373.     4810.    856.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4173.       10.    553.       0.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4173.     1610.    787.       0.34(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -4173.     4810.    828.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.    -2390.    767.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.    -1390.    732.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.     -390.    548.       0.36(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.       10.    549.       0.85(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.      610.    722.       1.05(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.     1610.    773.       0.36(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.     2610.    875.       0.23(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.     3610.    914.       0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.     4610.    954.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.     4810.    838.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3973.     5610.    686.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3773.       10.    549.       0.64(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3773.     1610.    755.       0.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
1                                                                                                 POSTZ - PAGE NO.   3


                                                  HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                     HIGHEST FIVE CONCENTRATIONS
       METERS                                                              VALUE(DAY,ENDING HOUR)

     X            Y         ELEV.          HIGHEST            2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
   -3773.     1810.    792.       0.32(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3773.     2010.    824.       0.29(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3773.     4810.    839.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3573.       10.    549.       0.52(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3573.     2010.    848.       0.29(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3573.     4810.    852.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3373.       10.    549.       0.44(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3373.     2010.    799.       0.34(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3373.     4810.    831.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3273.     2010.    787.       0.37(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3273.     2210.    841.       0.33(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3273.     2410.    862.       0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3173.       10.    567.       0.48(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3173.     2410.    841.       0.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -3173.     4810.    806.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.    -2390.    661.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.    -1390.    613.       0.24(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.     -390.    609.       0.47(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.       10.    601.       0.63(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.      610.    579.       1.53(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.     1610.    823.       0.42(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.     2410.    784.       0.45(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.     2610.    786.       0.42(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.     3610.    865.       0.22(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.     4610.    770.       0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.     4810.    747.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.     5610.    642.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2773.       10.    609.       0.98(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2773.     2410.    731.       0.53(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2773.     4810.    724.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2573.       10.    587.       1.46(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2573.     2410.    732.       0.60(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2573.     4810.    713.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2373.       10.    574.       2.69(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2373.     2410.    726.       0.64(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2373.       4810.     700.         0.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2173.         10.     564.         2.53(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2173.       2410.     675.         0.67(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2173.       4810.     675.         0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      -2390.     487.         0.21(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      -1390.     522.         0.32(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       -390.     487.         0.76(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       -190.     526.         1.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.         10.     549.         1.56(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.        210.     549.         1.92(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.        410.     547.         2.71(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.        610.     479.         1.00(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       1610.     768.         1.50(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       2410.     675.         0.67(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
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                                             HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES
       METERS                                                    HIGHEST FIVE CONCENTRATIONS
                                                                  VALUE(DAY,ENDING HOUR)

    X            Y        ELEV.         HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
   -1973.       2610.     799.         0.50(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       3610.     696.         0.28(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       4610.     628.         0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       4810.     646.         0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       5610.     597.         0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.       -790.     529.         0.57(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.       -590.     497.         0.66(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.        210.     539.         1.35(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.        410.     491.         1.49(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.       2410.     668.         0.72(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.       4810.     609.         0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      -1190.     433.         0.39(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       -990.     459.         0.46(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       -790.     482.         0.55(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       -590.     487.         0.63(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       -390.     465.         0.68(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       -190.     475.         0.79(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.         10.     505.         1.01(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.        210.     495.         1.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.        410.     482.         1.46(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       2410.     648.         0.78(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       4810.     609.         0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1373.      -1190.     427.         0.40(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1373.       2410.     609.         0.89(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1373.       4810.     575.         0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.      -1190.     423.         0.42(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.       -990.     423.         0.47(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.       -790.     424.         0.53(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.       -590.     425.         0.60(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.       -390.     425.         0.72(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.       2410.     610.         0.97(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.       4810.     555.         0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.      -2390.     407.         0.26(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.      -1390.     411.         0.42(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.       -390.     421.         0.85(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.       -190.     423.         1.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.        610.     387.         7.23(  4,24)*       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.       1610.     594.         4.79(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.       2410.     610.         0.98(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.       2610.     609.         0.79(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.       3610.     609.         0.37(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.       4610.     551.         0.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.       4810.     549.         0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -973.       5610.     549.         0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -773.       -190.     420.         1.33(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -773.       2010.     603.         1.68(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -773.       2210.     610.         1.24(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -773.       2410.     610.         0.95(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -773.       4810.     549.         0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
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                                             HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)
 RECEPTOR COORDINATES                                HIGHEST FIVE CONCENTRATIONS
      METERS                                          VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.       HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------
     -573.      -190.     417.      1.61(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -573.      2010.     593.      1.43(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -573.      2210.     609.      1.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -573.      2410.     610.      0.93(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -573.      4810.     572.      0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -373.      -390.     410.      1.38(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -373.      -190.     418.      1.81(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -373.      2010.     564.      1.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -373.      2210.     594.      1.05(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -373.      2410.     599.      0.88(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -373.      4810.     598.      0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -173.      -390.     402.      1.56(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -173.      2410.     502.      0.97(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -173.      4810.     609.      0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.     -2390.     366.      0.36(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.     -1390.     366.      0.64(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.      -590.     384.      1.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.      -390.     392.      1.87(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.       610.     293.      3.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.      1610.     502.      2.74(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.      2410.     428.      0.94(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.      2610.     489.      0.80(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.      3610.     555.      0.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.      4610.     605.      0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.      4810.     609.      0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
       27.      5610.     487.      0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      227.      -590.     373.      1.47(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      227.      2410.     426.      0.95(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      227.      4810.     608.      0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      427.      -790.     365.      1.21(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      427.      -590.     366.      1.47(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      427.      2410.     424.      0.98(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      427.      4810.     575.      0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      627.      -790.     360.      1.22(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      627.      2410.     408.      0.98(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      627.      4810.     548.      0.20(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      827.      -790.     355.      1.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      827.      2410.     372.      0.89(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      827.      4810.     563.      0.20(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.     -2390.     339.      0.43(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.     -1390.     346.      0.78(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.      -790.     350.      1.33(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.      -390.     351.      1.56(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.       610.     320.      2.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.      1610.     398.      3.55(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.      2410.     363.      0.86(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.      2610.     365.      0.75(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.      3610.     422.      0.37(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.      4610.     541.      0.22(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
1                                                                                              POSTZ - PAGE NO.   6


                                             HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                HIGHEST FIVE CONCENTRATIONS
      METERS                                          VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.       HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------
     1027.      4810.     548.      0.21(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1027.      5610.     600.      0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1227.      -790.     344.      1.23(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1227.      2410.     355.      0.85(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1227.      4810.     585.      0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1427.      -990.     337.      1.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1427.      -790.     338.      1.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1427.      2410.     346.      0.79(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1427.      4810.     588.      0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1627.     -1190.     331.      0.96(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1627.      -990.     332.      1.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1627.      1610.     331.      1.86(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1627.      1810.     331.      1.67(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1627.      2010.     332.      1.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1627.      2210.     333.      0.92(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     1627.        2410.     337.          0.76(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     1627.        4810.     532.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     1627.        5010.     533.          0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     1827.       -1390.     325.          0.87(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     1827.       -1190.     326.          0.94(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     1827.        1610.     321.          1.49(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     1827.        5010.     486.          0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.       -2390.     309.          0.51(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.       -1390.     320.          0.84(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.        -390.     322.          1.53(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.         610.     317.          4.31(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.        1410.     313.          1.69(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2037.        1231.     311.          3.42(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.        1610.     312.          1.32(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.        2610.     327.          0.54(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.        3610.     342.          0.34(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.        4610.     440.          0.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.        5010.     469.          0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2027.        5610.     515.          0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2227.       -1590.     313.          0.75(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2227.         610.     311.          4.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2227.         810.     310.          3.31(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2227.        1210.     305.          1.90(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2227.        1410.     305.          1.30(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2227.        5010.     438.          0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2427.       -1590.     309.          0.73(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2427.         410.     307.          2.47(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2427.         610.     304.          2.37(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2427.         810.     305.          2.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2427.        1210.     305.          1.43(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2427.        5010.     426.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.       -1590.     304.          0.71(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.       -1390.     304.          0.75(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.        -390.     305.          1.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
1
                                                                                                       POSTZ - PAGE NO.    7


                                        HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                         HIGHEST FIVE CONCENTRATIONS
       METERS                                                  VALUE(DAY,ENDING HOUR)

      X              Y         ELEV.          HIGHEST           2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------------
     2627.        -190.     304.          1.39(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.          10.     305.          1.60(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.         210.     305.          1.78(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.         410.     305.          1.76(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.         610.     305.          1.63(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.         810.     305.          1.49(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.        1010.     305.          1.33(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.        1210.     305.          1.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2262.         433.     311.          4.56(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2627.        5010.     380.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2827.       -1390.     301.          0.73(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2827.       -1190.     302.          0.78(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2827.        -990.     302.          0.82(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2827.        -790.     302.          0.86(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2827.        -590.     303.          0.94(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2827.        -390.     303.          1.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2827.        -190.     303.          1.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2827.          10.     303.          1.28(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     2827.        5010.     358.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.       -2390.     297.          0.53(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.       -1390.     298.          0.69(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.        -390.     300.          0.98(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.         610.     301.          1.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.        1610.     302.          0.70(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.        2610.     303.          0.37(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.        3610.     305.          0.26(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.        4610.     333.          0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.        5010.     348.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3027.        5610.     372.          0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3227.        5010.     338.          0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3227.        5210.     345.          0.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3227.        5610.     362.          0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
     3227.        6010.     373.          0.13(  4,24)        0.00(  0, 0)*       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)

 * - DENOTES PEAK VALUE
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          POSTZ              (DATED 86224)
1                                                                                                POSTZ - PAGE NO.   1



                                       POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

          POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - NOX - 04/13/92 - MPV
          SHORTZ RUN TITLE:  ********************************************************************************

          ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                       0
          ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                 0
          ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                   0
          ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)        0
          ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                  0

     1-HOUR AVERAGE ANALYSIS:
          ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

     3-HOUR AVERAGE ANALYSIS:
          ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                     0
          ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                 0

     8-HOUR AVERAGE ANALYSIS:
          ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                     0
          ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                     0
          ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                 0

     24-HOUR AVERAGE ANALYSIS:
          ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                     0
          ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                     0
          ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                 0

     ANNUAL AVERAGE ANALYSIS:
          ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                     1
          ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                     0
          ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                 0

     USER-SPECIFIED AVERAGING TIME ANALYSIS
          ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                     0
          ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                     0
          ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                 0

          ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                          0
          ISW(25) CALMS POLICY (1=YES,0=NO)                                              0


          JULIAN DAY FOR START OF ANALYSIS                                               1
          YEAR FOR START OF ANALYSIS                                                    91
          JULIAN DAY FOR END OF ANALYSIS                                                 5
          YEAR FOR END OF ANALYSIS                                                      92
1                                                                                                POSTZ - PAGE NO.   2



                                          HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
      METERS                                              VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.         HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-------------------------------------------------------------------------------------------------------------------------
     2327.       410.    310.        3.52(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2427.       410.    307.        2.47(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2527.       410.    305.        2.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2627.       410.    305.        1.76(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2262.       433.    311.        4.56(  4,24)*     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2262.       510.    312.        4.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2327.       510.    309.        3.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2427.       510.    304.        2.40(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2527.       510.    304.        2.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2627.       510.    305.        1.69(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2227.       610.    311.        4.22(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2327.       610.    308.        3.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2427.       610.    304.        2.37(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2527.       610.    305.        1.89(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2627.       610.    305.        1.63(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     2227.        710.     311.        4.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2327.        710.     308.        2.69(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2427.        710.     306.        2.20(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2527.        710.     304.        1.83(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.        710.     305.        1.59(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2227.        810.     310.        3.31(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2327.        810.     307.        2.57(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2427.        810.     305.        2.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2527.        810.     304.        1.73(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.        810.     305.        1.49(  4,24)       0.00(  0, 0)*      0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)

 * - DENOTES PEAK VALUE
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                   POSTZ               (DATED 86224)
1                                                                                                         POSTZ - PAGE NO.    1


                                         POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                  POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - NOX - 04/15/92 - MPV
                  SHORTZ RUN TITLE:  **********************************************************************************

                  ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                         0
                  ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                   0
                  ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                     0
                  ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)          0
                  ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                    0

             1-HOUR AVERAGE ANALYSIS:
                  ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        1
                  ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
                  ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

             3-HOUR AVERAGE ANALYSIS:
                  ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                  ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

             8-HOUR AVERAGE ANALYSIS:
                  ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

             24-HOUR AVERAGE ANALYSIS:
                  ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

             ANNUAL AVERAGE ANALYSIS:
                  ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

             USER-SPECIFIED AVERAGING TIME ANALYSIS
                  ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                  ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                            0
                  ISW(25) CALMS POLICY (1=YES,0=NO)                                                0


                  JULIAN DAY FOR START OF ANALYSIS                                                 1
                  YEAR FOR START OF ANALYSIS                                                      91
                  JULIAN DAY FOR END OF ANALYSIS                                                   5
                  YEAR FOR END OF ANALYSIS                                                        92
1                                                                                                         POSTZ - PAGE NO.    2


                                            HIGH FIVE TABLE FOR      1 HOUR AVERAGES

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
      METERS                                                    VALUE(DAY,ENDING HOUR)

    X          Y       ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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    -5973.      -2390.   798.        39.23(120,19)       22.53(151, 9)       20.55(106, 8)       11.74(137, 8)        8.11( 79, 9)
    -5973.      -1390.   793.        15.63(103,17)       13.83( 93,17)       12.78( 51, 3)       12.40(149, 8)       11.85(124, 8)
    -5973.       -390.   781.        73.84(  7,22)       39.32( 68, 6)       32.86( 77, 7)       30.65(124, 8)       22.42( 75, 7)
    -5973.        610.   852.        55.64( 74, 6)       18.25( 97,17)       18.22( 77, 8)       17.35(111, 8)       16.23( 80, 8)
    -5973.       1610.   731.        19.36( 77,19)       18.98(125,17)       17.70( 70, 9)       16.59( 88, 9)       14.41(349,21)
    -5973.       2610.   730.        32.04(135, 8)       29.66( 82, 8)       25.28(126, 8)       23.59( 74, 8)       22.93( 95,19)
    -5973.       3610.   728.        62.72( 98,19)       38.82( 92, 7)       36.82(139,18)       16.67( 96, 7)       16.51(148, 9)
    -5973.       4610.   747.        64.59( 74, 4)       46.42(151, 8)       44.51( 70, 7)       33.76(140, 8)       32.74( 70, 8)
    -5973.       5610.   625.        58.91( 74, 2)       31.01( 84,23)       25.78(129,18)       25.44(140, 7)       22.54(147, 7)
    -4973.      -2390.   797.        27.51(106, 7)       19.13(137, 8)       17.47(108, 8)       14.02( 71,16)       13.02(114, 8)
    -4973.      -1390.   731.        68.98(120,19)       36.27(106, 8)       29.26(151, 9)       20.00( 74, 5)       18.01(  7,22)
    -4973.       -390.   652.        78.70(  7,22)       34.80( 68, 6)       29.91(120,19)       28.13(124, 8)       25.62(151, 9)
    -4973.       1610.   771.        29.32( 70, 9)       27.27(100,19)       26.31(125,17)       26.16( 77,19)       24.74( 88, 9)
    -4973.       2610.   792.        50.61(112,19)       48.16(135, 8)       47.04(126, 8)       41.46( 88, 8)       33.07(136, 9)
    -4973.       3610.   904.        39.83( 70, 8)       39.55(146,17)       35.01( 96, 8)       32.47(122,18)       28.70(105,18)
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          -4973.       4610.    858.       37.91(129,18)       31.31(120,18)       25.80( 94,19)       22.69(122,18)       20.19(134, 9)
          -4973.       5610.    570.       32.97(145,18)       31.29(140, 7)       21.26(132,18)       20.34(120,18)       19.69(109, 8)
          -4773.        410.    646.       88.65( 95,19)       73.82( 98, 7)       69.41(112,19)       66.88( 77, 7)       61.44(135, 8)
          -4773.        610.    669.      100.49(354, 6)       87.01( 74, 4)       78.94(151, 8)       67.75( 70, 7)       66.14( 44, 4)
          -4773.        810.    666.      137.48( 77, 5)      121.71( 74, 6)      110.57(354, 6)       68.60( 69, 2)       64.94(139, 7)
          -4773.       1010.    695.      130.37( 74, 6)      105.25( 77, 5)       55.95( 74, 1)       44.89(354, 6)       42.67( 45,24)
          -4773.       1210.    730.       44.83( 74, 6)       42.53(100,19)       35.07(107,19)       28.17( 82, 7)       27.55( 73, 4)
          -4773.       1210.    730.       44.83( 74, 6)       42.53(100,19)       35.07(107,19)       28.17( 82, 7)       27.55( 73, 4)
          -4573.        410.    633.      183.79( 98,19)      111.00(123,15)      104.94( 94, 8)      103.55(113, 9)       98.17( 72,21)
          -4573.       1210.    722.       49.05( 74, 6)       35.57(  5,21)       35.15( 37,22)       30.24( 73, 4)       27.19( 77, 5)
          -4573.       4810.    853.       38.46(120,18)       25.16(145,18)       24.46(104, 8)       22.38(109, 8)       22.09( 94,19)
          -4373.         10.    609.      151.24( 50, 4)      116.46(  7,22)      109.60( 61,22)      106.13(107, 5)      102.44(  1,16)
          -4373.        210.    554.       68.86( 77, 5)       65.31( 77, 7)       56.14(354, 6)       55.98( 86, 5)       54.82(107, 2)
          -4373.        410.    583.       97.16(107, 4)       83.84( 77, 7)       77.18( 93,19)       77.03( 98, 7)       69.83( 25,16)
          -4373.       1410.    694.       35.18(125,17)       34.53( 77,19)       30.82( 70, 9)       30.47( 88, 9)       30.45( 73, 4)
          -4373.       1610.    756.       42.98( 70, 9)       38.40( 68,20)       36.37( 92, 8)       33.75( 69, 7)       32.43( 88, 9)
          -4373.       1610.    756.       42.98( 70, 9)       38.40( 68,20)       36.37( 92, 8)       33.75( 69, 7)       32.43( 88, 9)
          -4373.       4810.    856.       39.16(145,18)       32.29(120,18)       26.55(104, 8)       26.25(109, 8)       23.66(132,18)
          -4173.         10.    553.      126.17(  7,22)       79.90(149, 1)       72.33(107, 3)       54.10( 68, 6)       48.61(  1,11)
          -4173.       1610.    787.       51.52( 68,20)       49.29( 70, 9)       44.34( 92, 8)       37.33( 69, 7)       35.52( 88, 9)
          -4173.       4810.    828.       49.57(145,18)       38.88(132,18)       27.01(109, 8)       25.33(104, 8)       25.23(150, 9)
          -3973.      -2390.    767.       28.18(114, 8)       26.62(115, 8)       25.31(352, 6)       20.83( 79, 8)       15.39( 76, 4)
          -3973.      -1390.    732.       90.16(117, 7)       57.25( 51, 3)       44.32( 61,22)       35.40(106, 7)       30.66(137, 8)
          -3973.       -390.    548.      160.86( 96,23)       77.74( 46, 3)       63.45(102, 2)       62.46(149, 1)       43.66(103,17)
          -3973.         10.    549.      134.61(149, 1)      121.79(  7,22)       69.58(107, 3)       53.82( 68, 6)       45.86( 57, 3)
          -3973.        610.    722.      104.75( 28,20)      101.34(133, 1)       99.19( 37,23)       98.78( 51, 1)       98.35(366, 6)
          -3973.       1610.    773.       69.47( 68,20)       56.72( 70, 9)       54.14( 92, 8)       42.36( 82, 8)       40.90( 69, 7)
          -3973.       2610.    875.       86.50(139,18)       46.37(146,17)       38.62( 94, 8)       37.95(148, 9)       34.15(136,17)
          -3973.       3610.    914.       55.94(129,18)       48.39(122,18)       44.33(120,18)       39.82( 70, 8)       34.83(106,18)
          -3973.       4610.    954.       54.71(145,18)       45.18(132,18)       29.44(136,18)       29.33( 98,18)       27.22(104, 8)
          -3973.       4810.    838.       51.50(145,18)       50.79(132,18)       36.33(136,18)       36.21( 98,18)       28.64(150, 9)
          -3973.       5610.    686.       40.04( 74, 1)       36.52(100,19)       25.40( 82, 7)       24.42(132,18)       24.20( 98,18)
          -3773.         10.    549.      180.32(149, 1)      112.41(  7,22)       64.68(107, 3)       59.15( 68, 6)       45.84(124, 8)
          -3773.       1610.    755.       91.34( 68,20)       65.89( 92, 8)       65.38( 70, 9)       55.01( 82, 8)       44.19( 69, 7)
1                                                                                                               POSTZ - PAGE NO.   3



                                                  HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

   RECEPTOR COORDINATES                                                   HIGHEST FIVE CONCENTRATIONS
         METERS                                                            VALUE(DAY,ENDING HOUR)

       X           Y       ELEV.           HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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          -3773.       1810.    792.      110.14( 68,20)       82.54( 82, 8)       72.13( 92, 8)       62.12( 70, 9)       60.39(135, 8)
          -3773.       2010.    824.       80.17(126, 8)       66.08( 82, 8)       63.67( 88, 8)       62.75(136, 9)       59.16( 95,19)
          -3773.       4810.    839.       53.44(132,18)       43.64(145,18)       42.73(136,18)       42.63( 98,18)       27.77(150, 9)
          -3573.         10.    549.      202.09(149, 1)      124.17(  7,22)       89.99(107, 3)       63.26( 68, 6)       51.80( 75, 7)
          -3573.       2010.    848.       80.84( 88, 8)       70.90(136, 9)       60.96( 95,19)       60.34( 82, 8)       53.68(122,17)
          -3573.       4810.    852.       45.03(132,18)       40.16(136,18)       40.14( 98,18)       35.90(100,19)       29.55(145,18)
          -3373.         10.    549.      192.02(149, 1)      136.53( 96,23)       68.93(103,17)       60.32( 50, 6)       59.27( 46, 3)
          -3373.       2010.    799.      108.27(112,19)      106.59(135, 8)      104.99(126, 8)       94.87( 88, 8)       79.23(139,18)
          -3373.       4810.    831.       58.13(100,19)       37.02( 82, 7)       36.28(107,19)       30.93(147,17)       29.75(132,18)
          -3273.       2010.    787.      111.40(112,19)      110.44( 98,19)      106.04(126, 8)      104.41(135, 8)      100.11(139,18)
          -3273.       2210.    841.      183.21( 98,19)      136.05(139,18)       72.93( 96, 7)       66.21(146,17)       61.09(148, 9)
          -3273.       2410.    862.      103.99(146,17)       93.98(139,18)       84.37( 96, 8)       77.11( 70, 8)       62.71(105,18)
          -3173.         10.    567.      298.82( 96,23)      166.99( 46, 3)      166.38(102, 2)       91.35(103,17)       86.80( 93,17)
          -3173.       2410.    841.      150.24( 96, 7)      112.49(146,17)      103.14( 70, 8)       95.88( 96, 8)       84.70(122,18)
          -3173.       4810.    806.       65.91(100,19)       46.40(107,19)       46.35( 77, 6)       42.83( 95, 8)       37.35( 82, 7)
          -2973.      -2390.    661.       82.73(  3, 1)       80.40( 74, 5)       69.35( 74, 3)       36.01( 52, 4)       36.01( 69, 3)
          -2973.      -1390.    613.       94.23(352, 1)       60.21( 74, 3)       49.50( 68,21)       41.75(114, 8)       41.16(115, 8)
          -2973.       -390.    609.      146.81(107, 5)      138.80(117, 7)      125.48(120,19)      115.68( 61,22)      108.22( 50, 4)
          -2973.         10.    601.      259.44( 96,23)      197.86(120,19)      131.50(102, 2)      130.70(106, 8)      111.61(151, 9)
          -2973.        610.    579.      173.37( 77, 7)      154.86(  7,22)      152.45(107, 4)      124.25( 98, 7)       96.27(124, 8)
          -2973.       1610.    823.      159.56( 68,20)      136.93( 82, 8)      119.03( 92, 8)      109.48( 70, 9)       98.73( 74, 8)
          -2973.       2410.    784.      218.77( 74, 4)      209.26(151, 8)      180.24( 70, 7)      159.87(140, 8)      153.51( 70, 8)
          -2973.       2610.    786.      236.33( 74, 4)      186.98( 70, 7)      148.11(151, 8)      142.42(122,18)      132.60( 70, 8)
          -2973.       3610.    865.       87.65(132,18)       85.98(145,18)       66.77(136,18)       66.53( 98,18)       51.74(150, 9)
          -2973.       4610.    770.       69.19(100,19)       61.32( 77, 6)       51.96( 95, 8)       50.70(107,19)       37.54( 82, 7)
          -2973.       4810.    747.       64.95( 77, 6)       56.09(100,19)       50.78( 95, 8)       45.57(107,19)       30.33(144,17)
          -2973.       5610.    642.       49.05(  5,21)       39.00( 77, 6)       35.85(148,17)       27.70(149,17)       26.82( 95, 8)
          -2773.         10.    609.      231.31( 96,23)      219.34(120,19)      126.47(102, 2)      124.60(106, 8)      106.37(151, 9)
          -2773.       2410.    731.      272.25( 74, 4)      228.69( 70, 7)      206.66(151, 8)      177.50(122,18)      172.23( 70, 8)
          -2773.       4810.    724.       66.68( 77, 6)       51.89(  5,21)       47.31( 95, 8)       43.17(148,17)       33.36(149,17)
          -2573.         10.    587.      245.40(120,19)      182.91(107, 5)      156.13( 69, 5)      153.60(  2,24)      152.17(  2,23)
          -2573.       2410.    732.      271.12( 74, 2)      246.34( 74, 4)      194.03( 70, 7)      155.88(122,18)      153.12(129,18)
          -2573.       4810.    713.       62.98(  5,21)       49.08( 77, 6)       46.85(148,17)       36.20(149,17)       34.13( 95, 8)
          -2373.         10.    574.      267.76(117, 7)      207.89(107, 5)      188.86( 51, 3)      183.29(120,19)      166.96(352, 1)
          -2373.       2410.    726.      294.97( 74, 2)      214.29(120,18)      172.25(129,18)      163.67(133, 8)      137.26( 94,19)
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  -2373.     4810.    700.      57.24( 5,21)      43.47( 37,22)      42.00(153, 8)      40.60(152, 8)      36.10(148,17)
  -2173.       10.    564.     281.94(117, 7)    217.64( 51, 3)     197.38(352, 1)     191.58(106, 7)     166.08(362, 1)
  -2173.     2410.    675.     183.67(120,18)    177.82( 74, 1)     175.88( 74, 2)     157.97(145,18)     151.52(132,18)
  -2173.     4810.    675.      46.52(152, 8)     46.11( 37,22)      44.19( 84,22)      39.01(153, 8)      38.64(104, 4)
  -1973.    -2390.    487.      89.13(363,22)     80.21(355, 4)      76.24(108, 5)      75.85(363,21)      72.88(351, 5)
  -1973.    -1390.    522.     174.23(351, 5)    125.32( 3, 5)       97.26(352, 2)      91.96(108, 5)      78.93(363,22)
  -1973.     -390.    487.     178.59( 3, 1)     173.76(117, 5)     173.30( 74, 5)     173.29( 74, 3)     168.93( 80,23)
  -1973.     -190.    526.     224.67(352, 1)    195.34( 3, 1)      189.20( 74, 3)     189.06(117, 5)     187.67( 74, 5)
  -1973.       10.    549.     213.66(352, 1)    212.31( 3, 1)      207.53( 74, 3)     173.93( 51, 3)     166.38(106, 7)
  -1973.      210.    549.     360.29(117, 7)    259.73( 51, 3)     247.39(107, 5)     235.53(352, 1)     232.96(106, 7)
  -1973.      410.    547.     415.12(120,19)    392.01(117, 7)     367.78( 96,23)     346.05( 85,22)     292.19(107, 5)
  -1973.      610.    479.     517.06(149, 1)    481.19( 96,23)     419.90(120,19)     372.61(139, 2)     360.72( 85,22)
  -1973.     1610.    768.     440.95( 74, 4)    436.14(151, 8)     388.59(139,18)     383.19( 98,19)     372.05( 70, 7)
  -1973.     2410.    675.     213.25( 74, 1)    178.10(132,18)     173.09(145,18)     155.22(100,19)     147.48( 77, 6)
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                                               HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                HIGHEST FIVE CONCENTRATIONS
       METERS                                                         VALUE(DAY,ENDING HOUR)

    X            Y         ELEV.         HIGHEST          2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
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  -1973.     2610.    799.     157.13( 77, 6)    154.67(132,18)     144.18(100,19)     140.92(145,18)     137.54( 95, 8)
  -1973.     3610.    696.      97.12( 5,21)      76.88( 77, 6)      73.55(148,17)      70.86(153, 8)      69.72(152, 8)
  -1973.     4610.    628.      64.77(104, 4)     56.13(108, 4)      48.18( 84,22)      46.46(152, 8)      46.15( 75,20)
  -1973.     4810.    646.      64.10(104, 4)     45.65( 75,20)      43.94(125,18)      43.02( 84,22)      39.41(152, 8)
  -1973.     5610.    597.      55.87(104, 4)     48.43(108, 4)      47.24(107,24)      39.74( 75,20)      31.79(125,18)
  -1773.     -790.    529.     222.35(351, 5)    156.30( 74, 5)     154.52( 3, 5)      136.02(363,22)     125.72(108, 5)
  -1773.     -590.    497.     242.35(351, 5)    184.98( 3, 1)      184.24(355, 4)     180.90( 74, 5)     166.00( 3, 5)
  -1773.      210.    539.     260.74( 3, 1)     259.03(352, 1)     254.22( 74, 5)     252.68( 74, 3)     252.25(117, 5)
  -1773.      410.    491.     489.60( 93,20)    461.75(117, 7)     364.31(114,20)     351.13(355, 3)     340.02(107, 5)
  -1773.     2410.    668.     217.54( 74, 1)    190.64( 77, 6)     177.27(100,19)     174.28(132,18)     171.34( 95, 8)
  -1773.     4810.    609.      69.78(104, 4)     64.45(107,24)      60.47(108, 4)      49.62( 75,20)      41.41(107, 1)
  -1573.    -1190.    433.     174.30(363,21)    154.76(351, 5)     149.42(355, 4)     145.60(364, 1)     134.73(363,22)
  -1573.     -990.    459.     236.01(351, 5)    188.27(363,21)     181.17(355, 4)     146.61(364, 1)     144.12(363,22)
  -1573.     -790.    482.     250.18(351, 5)    204.48(363,21)     180.94(355, 4)     158.72( 3, 5)      156.72(363,22)
  -1573.     -590.    487.     252.61(351, 5)    222.65(363,21)     194.14( 3, 5)      190.64(355, 4)     171.99(363,22)
  -1573.     -390.    465.     276.49(351, 5)    238.58(363,21)     220.87( 74, 5)     210.00(355, 4)     192.87( 3, 5)
  -1573.     -190.    475.     308.11(351, 5)    269.07( 3, 1)      254.56( 74, 3)     234.20(355, 4)     233.87(117, 5)
  -1573.       10.    505.     349.94(351, 5)    266.25(355, 4)     255.58(117, 5)     250.83( 3, 1)      247.57( 74, 3)
  -1573.      210.    495.     402.64(351, 5)    362.27(352, 1)     306.69(355, 4)     282.59( 3, 1)      278.22( 80,23)
  -1573.      410.    482.     533.10( 93,20)    472.21(351, 5)     372.79(117, 7)     354.68(355, 4)     351.19( 51, 3)
  -1573.     2410.    648.     222.84( 77, 6)    190.61( 95, 8)     186.79(100,19)     160.30( 5,21)      159.67(104, 4)
  -1573.     4810.    609.      70.14(107,24)     60.47(113,23)      55.11(107, 1)      46.62(104, 4)      45.56(135,18)
  -1373.    -1190.    427.     178.70(363,21)    171.60(364, 1)     137.53(363,22)     112.16(135, 4)     108.27( 85,20)
  -1373.     2410.    609.     240.93( 96, 6)    180.15( 5,21)      170.82(113,23)     170.42(104, 4)     169.16(107,24)
  -1373.     4810.    575.      70.06(113,23)     59.56( 93, 6)      55.59(144,18)      54.86(107, 1)      53.16(135,18)
  -1173.    -1190.    423.     191.25(364, 1)    169.68(363,21)     136.07( 94, 1)     117.87( 73,24)     117.56( 23, 5)
  -1173.     -990.    423.     226.02(363,21)    204.22(364, 1)     147.90( 94, 1)     134.93( 73,24)     129.52( 23, 5)
  -1173.     -790.    424.     263.03(363,21)    215.78(364, 1)     161.94( 94, 1)     154.14( 73,24)     142.88( 96,24)
  -1173.     -590.    425.     268.18(363,21)    230.98(364, 1)     178.91( 94, 1)     175.54( 73,24)     158.89(363,22)
  -1173.     -390.    425.     265.31(363,21)    254.41(364, 1)     238.79(363,22)     199.83( 94, 1)     199.53( 73,24)
  -1173.     2410.    610.     219.53( 96, 6)    210.45(104, 4)     209.41(144,18)     185.51(107,24)     182.39(108, 4)
  -1173.     4810.    555.      82.82(123,23)     74.83(144,18)      65.69(104, 6)      59.28(113,23)      48.86(113,22)
   -973.    -2390.    407.      97.57( 94, 1)     90.16( 73,24)      76.28(364, 2)      74.25( 85,21)      74.18( 23, 4)
   -973.    -1390.    411.     138.38( 94, 1)    126.35( 73,24)     121.05(136, 6)     111.51( 77, 1)     107.42(364, 2)
   -973.     -390.    421.     286.51(364, 1)    212.44(135, 4)     206.17( 94, 1)     200.79( 92, 6)     200.79(124, 2)
   -973.     -190.    423.     370.62(364, 1)    270.15(363,21)     241.67(135, 4)     230.78( 94, 1)     229.03( 92, 6)
   -973.      610.    387.    1244.24(351, 5)*   993.23(355, 4)*    657.53(352, 2)     646.56(364, 1)     626.14( 3, 5)
   -973.     1610.    594.     791.90( 3, 7)     587.18( 94, 6)     583.32(359, 1)     565.70( 77, 6)     535.27( 96, 6)
   -973.     2410.    610.     228.04(114, 3)    227.37(120,22)     225.49(144,18)     213.52(113,23)     206.70(114, 2)
   -973.     2610.    609.     199.69(120,22)    198.37(144,18)     194.92(114, 3)     181.54(114, 2)     180.14(113,23)
   -973.     3610.    609.     116.36(144,18)    103.44(104, 6)     101.88(100,22)      79.58(133,18)      76.87(113,22)
   -973.     4610.    551.      74.11(104, 6)     73.79(144,18)      60.04(123,23)      55.06(113,22)      54.72(100,22)
   -973.     4810.    549.      69.67(104, 6)     68.00(144,18)      52.96(123,23)      51.76(113,22)      50.95(133,18)
   -973.     5610.    549.      55.14(104, 6)     50.46(144,18)      40.95(113,22)      39.14(133,18)      33.60(123,23)
   -773.     -190.    420.     300.75( 73,24)    275.84(136, 6)     260.90( 77, 1)     249.23( 94, 5)     249.23( 97,23)
   -773.     2010.    603.     473.59( 3, 7)     318.83(359, 1)     307.12(366, 6)     306.54(100,22)     305.84( 70, 6)
   -773.     2210.    610.     277.47( 3, 7)     263.40(366, 6)     256.13(120,22)     256.12( 97, 5)     255.48(114, 4)
   -773.     2410.    610.     230.62(366, 6)    224.09( 97, 5)     223.41(114, 4)     221.61(120,22)     221.29(114, 3)
   -773.     4810.    549.      71.31(100,22)     53.67( 81,22)      49.21(107,22)      46.33( 84,20)      43.35(104, 6)
1                                                                                               POSTZ - PAGE NO.    5


                                               HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)
  RECEPTOR COORDINATES                                   HIGHEST FIVE CONCENTRATIONS
       METERS                                              VALUE(DAY,ENDING HOUR)

     X          Y      ELEV.        HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
------------------------------------------------------------------------------------------------------------------------
     -573.      -190.   417.     246.46( 92, 6)     246.46(124, 2)     244.41( 87,22)     244.41(132,24)     244.36(153, 2)
     -573.      2010.   593.     435.51(  3, 7)     318.24(114, 4)     306.09(366, 6)     304.04(359, 1)     295.23(114, 3)
     -573.      2210.   609.     381.01(  3, 7)     298.01(114, 3)     263.72(359, 1)     251.97(366, 6)     247.22(114, 4)
     -573.      2410.   610.     331.75(  3, 7)     258.50(114, 3)     246.65(120,22)     224.23(114, 2)     220.48(366, 6)
     -573.      4810.   572.      80.74(120,22)      73.96(100,22)      73.40(114, 2)      67.28(114, 1)      59.79(134,18)
     -373.      -390.   410.     243.06( 98,21)     229.76(125, 1)     217.71( 92,24)     217.71(135, 6)     209.22(352, 3)
     -373.      -190.   418.     280.05( 92,24)     280.05(135, 6)     275.87(352, 3)     275.87(352, 4)     271.73(125, 1)
     -373.      2010.   564.     413.97(  3, 7)     290.05( 77, 4)     280.80(359, 1)     280.06( 97, 6)     280.06(146,18)
     -373.      2210.   594.     356.12(  3, 7)     258.18( 97, 5)     245.78(359, 1)     232.46(366, 6)     231.18( 97, 6)
     -373.      2410.   599.     317.47(  3, 7)     256.47(366, 6)     240.86( 97, 5)     235.54(114, 4)     218.68(359, 1)
     -373.      4810.   598.      88.08(120,22)      84.45(114, 3)      80.07(114, 2)      73.40(114, 1)      66.69(134,18)
     -173.      -390.   402.     228.64(124, 3)     222.69(128,21)     219.56( 87,22)     219.56(132,24)     210.45( 97, 4)
     -173.      2410.   502.     307.48(  3, 7)     214.82( 77, 4)     214.82(115, 2)     214.82(115, 4)     206.51(359, 1)
     -173.      4810.   609.      86.31(114, 3)      69.47(120,22)      63.16(114, 2)      57.89(114, 1)      55.37(114, 4)
       27.     -2390.   366.      97.79( 98,21)      80.26(153, 7)      75.13(125, 1)      74.09( 17, 1)      71.33( 97, 2)
       27.     -1390.   366.     139.12(125, 1)     135.53( 92,24)     135.32(135, 6)     131.15(352, 3)     131.15(352, 4)
       27.      -590.   384.     195.04(153, 2)     189.55( 87,22)     189.55(132,24)     179.22(124, 3)     172.74(117, 6)
       27.      -390.   392.     234.65(153, 2)     233.62(117, 6)     221.61( 87,22)     221.61(132,24)     206.38(146,20)
       27.       610.   293.     445.13( 70, 5)     445.06( 73,23)     444.96( 70, 4)     444.91(133,19)     444.91(151, 7)
       27.      1610.   502.     469.11( 63, 1)     469.06(144,19)     465.10( 70, 2)     457.71(106, 3)     452.88(134, 4)
       27.      2410.   428.     250.33(  3, 7)     212.57(359, 1)     208.05( 70, 6)     202.40(115, 3)     202.40(115,20)
       27.      2610.   489.     297.31(  3, 7)     188.93(114,21)     188.27(114, 5)     183.92(359, 1)     175.24( 70, 6)
       27.      3610.   555.     122.97( 97, 5)     122.62(366, 6)     114.81(  3, 7)     106.28( 77, 4)     103.43( 97, 6)
       27.      4610.   605.      89.53(366, 6)      88.39(114, 4)      81.12( 97, 5)      54.83(  3, 8)      47.89( 40, 5)
       27.      4810.   609.      81.72(114, 4)      80.30(366, 6)      66.69( 97, 5)      52.22(114, 3)      47.34(  3, 8)
       27.      5610.   487.      67.23(115, 6)      65.79(114, 3)      47.99( 92,20)      46.72(110, 4)      42.32(120,22)
      227.      -590.   373.     197.79(127, 3)     182.83(146,20)     181.13(140,24)     180.75(117, 6)     169.77( 39,23)
      227.      2410.   426.     207.47( 91,23)     193.24(115, 5)     192.65(125,19)     189.95(104,21)     189.04( 88, 2)
      227.      4810.   608.      87.13(366, 6)      83.75(114, 4)      82.55( 97, 5)      52.12(  3, 8)      47.96(113,24)
      427.      -790.   365.     178.22(127, 3)     154.90( 94, 4)     154.90( 95, 6)     154.90(147, 3)     150.73(140,24)
      427.      -590.   366.     187.72( 94, 4)     187.72( 95, 6)     187.72(147, 3)     185.51(128,24)     184.55(114,23)
      427.      2410.   424.     268.32(115, 5)     262.15( 98, 3)     262.15(134, 6)     231.61(134, 7)     206.85( 91,23)
      427.      4810.   575.      79.37( 97, 5)      74.75(366, 6)      61.85(113,24)      55.92(114, 4)      55.17( 97, 6)
      627.      -790.   360.     164.45( 94, 4)     164.45( 95, 6)     164.45(147, 3)     163.39(114,23)     158.97( 77, 3)
      627.      2410.   408.     249.01(132,19)     247.65( 98, 3)     247.61(134, 6)     236.96(115, 5)     231.55(148, 6)
      627.      4810.   548.      66.15( 97, 6)      66.15(146,18)      62.41( 77, 4)      62.04(109, 1)      60.81(113,24)
      827.      -790.   355.     243.02(137, 5)     220.93(138, 1)     204.12(126, 2)     202.52(149,20)     202.52(153, 5)
      827.      2410.   372.     236.57(106, 1)     236.57( 92, 1)     236.57(122,20)     231.48(132,19)     214.99(148,18)
      827.      4810.   563.     104.83(  3, 7)      77.36( 77, 4)      73.50(114, 5)      59.29( 74, 7)      59.29(122,19)
     1027.     -2390.   339.      88.02(153, 2)      83.48(117, 6)      81.78( 87,22)      80.67(132,24)      75.34( 87, 3)
     1027.     -1390.   346.     120.40( 94, 4)     120.32( 95, 6)     120.32(147, 3)     117.13(114,23)     114.79(128,24)
     1027.      -790.   350.     207.39( 98, 4)     207.09(153,22)     206.94( 97,24)     206.67(151,24)     206.65( 98, 6)
     1027.      -390.   351.     287.73(127, 2)     276.71( 96,23)     276.17( 97,24)     276.14( 98, 6)     276.14(151,24)
     1027.       610.   320.     319.50(149, 1)     287.90( 89,21)     287.07( 95, 1)     256.71(134, 1)     255.31( 91,21)
     1027.      1610.   398.     985.83( 74, 4)     851.90( 70, 7)     838.01(151, 8)     787.44(123,22)     749.44(122,18)
     1027.      2410.   363.     222.29(148,18)     218.59( 87, 1)     207.27(134, 4)     200.41( 92, 1)     200.41(106, 1)
     1027.      2610.   365.     210.03(132,19)     199.43(106, 1)     199.43( 92, 1)     199.43(122,20)     190.93(118,24)
     1027.      3610.   422.      93.30(103,19)      92.31(104, 5)      81.86( 92, 2)      78.90(115,22)      74.02( 90, 4)
     1027.      4610.   541.     126.95(  3, 7)      78.43( 70, 6)      77.48(114, 5)      73.24(359, 1)      68.84( 77, 4)
1                                                                                                  POSTZ - PAGE NO.   6


                                         HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                   HIGHEST FIVE CONCENTRATIONS
       METERS                                              VALUE(DAY,ENDING HOUR)

     X          Y      ELEV.        HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
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     1027.      4810.   548.     120.05(  3, 7)      77.20(114, 5)      75.01( 77, 4)      67.34( 70, 6)      62.26( 74, 7)
     1027.      5610.   600.      50.19( 97, 6)      50.17(146,18)      47.22( 77, 4)      43.46(113,24)      35.93( 73,19)
     1227.      -790.   344.     181.16(114, 6)     181.07(127, 2)     173.21(298, 6)     171.47( 97,24)     171.21(151,24)
     1227.      2410.   355.     206.16(134, 4)     197.57( 63, 1)     196.17( 87, 1)     176.38(144,19)     173.50(148,18)
     1227.      4810.   585.     113.09(  3, 7)      75.04( 70, 6)      72.22(359, 1)      61.71(114, 5)      59.65(133, 7)
     1427.      -990.   337.     165.39(127, 2)     161.10(114, 6)     159.38( 97,24)     158.99(151,24)     158.95( 98, 6)
     1427.      -790.   338.     177.49(114, 6)     177.15( 98, 5)     176.68(127, 2)     172.66( 92, 4)     172.66(123, 2)
     1427.      2410.   346.     193.54(144,19)     192.70( 63, 1)     190.29( 93, 5)     183.10( 70, 2)     160.33(106, 3)
     1427.      4810.   588.      70.67(359, 1)      67.15( 70, 6)      64.49(  3, 7)      60.51( 92, 2)      56.03( 10, 3)
     1627.     -1190.   331.     150.45(127, 2)     148.35( 97,24)     147.79(151,24)     147.70( 98, 6)     141.07(114, 6)
     1627.      -990.   332.     159.04(114, 6)     158.62( 98, 5)     155.50(127, 2)     152.71(298, 6)     149.78( 92, 4)
     1627.      1610.   331.     275.02( 86,22)     275.02( 94, 6)     231.79( 97,22)     226.77( 70, 1)     220.50( 97,21)
     1627.      1810.   331.     322.29( 93, 5)     251.35(359, 3)     247.92(114,22)     230.01( 93, 4)     219.31( 86,22)
     1627.      2010.   332.     327.09(150,19)     292.15( 88, 3)     267.77( 97, 5)     237.77( 94,21)     227.50( 84, 1)
     1627.      2210.   333.     281.36( 96, 6)     200.14(150,22)     198.59( 89,20)     197.31( 95, 5)     195.53(135,23)
     1627.      2410.     337.       212.37(150,22)        182.19( 70, 2)        179.68(106, 3)        172.13(144,19)        165.53( 88, 6)
     1627.      4810.     532.        64.89( 92, 2)         59.03(103,19)         58.86( 90, 4)         51.90(359, 1)         51.03(104, 5)
     1627.      5010.     533.        61.17(359, 1)         59.31( 92, 2)         53.97( 70, 6)         53.87( 90, 4)         49.20( 10, 3)
     1827.     -1390.     325.       137.72( 97,24)        136.99(151,24)        136.84( 98, 6)        135.47(127, 2)        128.69( 98, 4)
     1827.     -1190.     326.       144.57(114, 6)        141.59( 98, 5)        141.24(127, 2)        138.38(298, 6)        132.72( 97,24)
     1827.      1610.     321.       563.74( 96, 6)        513.82(150,22)        334.10(153,24)        332.47( 86,21)        257.00(104, 4)
     1827.      5010.     486.        60.15( 92, 2)         58.81(115, 3)         57.37(103,19)         54.68( 90, 4)         50.92(104, 5)
     2027.     -2390.     309.        80.99(114,23)         77.95( 94, 4)         77.62( 95, 6)         77.62(147, 3)         73.39( 77, 3)
     2027.     -1390.     320.       131.65(114, 6)        130.16(127, 2)        125.69(298, 6)        125.24( 98, 5)        122.05( 97,24)
     2027.      -390.     322.       403.84( 70, 4)        377.18( 70, 5)        347.88( 83,24)        347.20( 73,23)        336.94(127, 1)
     2027.       610.     317.       643.50( 74, 1)        592.26( 73,24)        585.00( 96,22)        534.54( 96, 5)        515.07(356, 1)
     2027.      1410.     313.       429.40(115, 6)        421.63(114, 4)        406.64(366, 6)        402.67(114, 3)        393.19(115, 1)
     2037.      1231.     311.       770.81(114, 5)        754.59(115, 2)        754.59(115, 4)        754.53( 77, 4)        601.52( 74, 7)
     2027.      1610.     312.       269.61(120,22)        245.10(114, 2)        241.76(123,23)        229.26(104, 6)        224.68(114, 1)
     2027.      2610.     327.       153.77( 70, 2)        150.50(106, 3)        142.84(144,19)        133.98( 88, 6)        133.72( 77,22)
     2027.      3610.     342.       124.24( 98, 3)        120.57(134, 6)        110.46(115, 5)         92.70(148, 6)         83.65( 81, 5)
     2027.      4610.     440.        71.30(115,22)         52.62(104, 5)         50.98(  2,20)         43.06(  9,23)         40.66(103,19)
     2027.      5010.     469.        58.65(103,19)         58.40(104, 5)         46.81( 92, 2)         44.44(115,22)         42.53( 90, 4)
     2027.      5610.     515.        49.44(359, 1)         48.91( 92, 2)         44.97( 90, 4)         41.75( 70, 6)         40.70(133, 1)
     2227.     -1590.     313.       120.56(127, 2)        119.32(114, 6)        113.73( 97,24)        113.68(298, 6)        113.08(151,24)
     2227.       610.     311.       552.63(153, 2)        547.09( 87,22)        547.09(132,24)        515.70(124, 3)        501.60(117, 6)
     2227.       810.     310.       437.26(136, 5)        437.26(124, 5)        437.26(153,23)        405.55(123, 4)        361.61(366, 6)
     2227.      1210.     305.       509.02( 87, 1)        499.20(148,18)        497.65(134, 4)        453.50(122,20)        453.50( 92, 1)
     2227.      1410.     305.       281.65(115, 5)        244.12(134, 6)        244.11( 98, 3)        238.63( 91,23)        222.46(103,19)
     2227.      5010.     438.        63.48(115,22)         54.42(104, 5)         47.06(103,19)         38.06(120,22)         37.55(128, 1)
     2427.     -1590.     309.       128.46( 94, 5)        128.46( 97,23)        128.46( 98, 1)        128.46(124, 1)        121.70( 98, 5)
     2427.       410.     307.       382.58(123, 1)        382.58(138, 5)        381.50(123, 3)        381.50(134,19)        368.38(109, 4)
     2427.       610.     304.       417.02( 92, 5)        408.26( 93, 2)        393.03( 77, 2)        393.03( 94, 3)        384.29( 73,22)
     2427.       810.     305.       350.49(136, 5)        350.49(153,23)        350.49(124, 5)        313.83(123, 4)        279.56(359, 2)
     2427.      1210.     305.       431.23( 95, 5)        431.23( 89,20)        426.99(135,23)        379.42( 88, 6)        379.42( 77,22)
     2427.      5010.     426.        69.83(115,22)         45.59(  2,20)         38.54(  9,23)         38.10(104, 5)         37.12(363, 3)
     2627.     -1590.     304.       120.35( 92, 4)        120.35(123, 2)        120.35(150, 7)        117.74( 94, 3)        117.47( 77, 2)
     2627.     -1390.     304.       131.72( 93, 2)        131.41( 92, 5)        113.87( 95, 4)        113.75( 73,22)        113.75( 85, 1)
     2627.      -390.     305.       280.08(153, 2)        279.95( 87,22)        279.95(132,24)        271.33(124, 3)        250.75(117, 6)
1                                                                                                          POSTZ - PAGE NO.    7


                                               HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                              HIGHEST FIVE CONCENTRATIONS
       METERS                                                         VALUE(DAY,ENDING HOUR)

    X            Y        ELEV.         HIGHEST                2ND HIGH              3RD HIGH              4TH HIGH              5TH HIGH
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     2627.      -190.     304.       280.81( 94, 4)        280.81( 95, 6)        280.81(147, 3)        268.09(114,23)        258.36(128,24)
     2627.        10.     305.       277.90(109, 4)        277.71( 95, 4)        277.68( 85, 1)        277.67( 73,22)        277.51(138, 5)
     2627.       210.     305.       255.03(134, 1)        252.06( 93, 2)        251.41( 92, 5)        249.41( 95, 4)        249.41( 85, 1)
     2627.       410.     305.       296.12( 92, 4)        296.12(123, 2)        296.12(150, 7)        290.28( 77, 2)        290.28( 94, 3)
     2627.       610.     305.       287.77(123, 4)        275.77(151, 6)        202.58(125,20)        190.57(136, 5)        190.53(153,23)
     2627.       810.     305.       300.99(136, 5)        300.97(153,23)        300.97(124, 5)        253.28(123, 4)        232.48(359, 2)
     2627.      1010.     305.       255.93(123,21)        250.46(359, 5)        239.28( 89,21)        238.85( 95, 1)        238.49( 99,21)
     2627.      1210.     305.       294.13( 88, 3)        285.70(150,19)        225.80( 93, 4)        211.80(123,21)        193.15(359, 5)
     2262.       433.     311.       770.74(117, 6)        744.13(153, 2)        698.05( 87,22)        698.05(132,24)        649.22(146,20)
     2627.      5010.     380.        63.01(115,22)         45.52(  2,20)         43.11(  9,23)         37.30(363, 3)         36.95( 50, 2)
     2827.     -1390.     301.       153.02( 98,21)        140.40(125, 1)        129.26( 95, 4)        129.09( 73,22)        129.09( 85, 1)
     2827.     -1190.     302.       180.80( 92,24)        180.80(135, 6)        171.79(125, 1)        161.70(352, 3)        161.70(352, 4)
     2827.      -990.     302.       193.46( 97, 4)        193.46(135,22)        189.57(128,21)        173.97(352, 3)        173.97(352, 4)
     2827.      -790.     302.       222.56( 70, 4)        208.09( 70, 5)        193.82( 87,22)        193.82(132,24)        192.13(124, 3)
     2827.      -590.     303.       199.39(151, 7)        199.39(133,19)        182.39(127, 3)        175.97( 70, 3)        175.97( 73,21)
     2827.      -390.     303.       195.73(114,23)        192.91( 94, 4)        192.91( 95, 6)        192.91(147, 3)        185.53( 77, 3)
     2827.      -190.     303.       196.55( 94, 3)        196.44( 77, 3)        196.41( 77, 2)        196.08(150, 7)        196.07(123, 2)
     2827.        10.     303.       212.49(149,19)        211.17(140,23)        201.62(134, 1)        183.36( 98, 5)        180.74(114, 6)
     2827.      5010.     358.        47.11( 88, 2)         46.38(104,21)         40.40(115,22)         40.23(  9,23)         38.66(107,23)
     3027.     -2390.     297.        89.55( 97,24)         87.86(151,24)         87.00( 98, 6)         86.42(127, 2)         80.68( 98, 4)
     3027.     -1390.     298.       137.38(128,21)        130.35( 97, 4)        130.35(135,22)        119.19(109, 4)        105.80(352, 3)
     3027.      -390.     300.       151.63( 77, 3)        144.95(114, 6)        141.33( 98, 5)        138.81(298, 6)        137.84(145,19)
     3027.       610.     301.       204.58(123, 4)        175.01(151, 6)        163.26(136, 5)        163.16(153,23)        163.08(124, 5)
     3027.      1610.     302.       168.74( 63, 1)        160.85(144,19)        139.01(134, 4)        135.96( 70, 2)        117.26( 87, 1)
     3027.      2610.     303.       121.63(149,18)        107.52( 84, 1)         95.52(150,19)         95.15(135,23)         82.43(104, 5)
     3027.      3610.     305.        94.06( 87, 1)         88.97(148,18)         85.43(134, 4)         68.48(120,20)         66.04(150,18)
     3027.      4610.     333.        81.20(115, 5)         77.25( 98, 3)         67.89(134, 6)         63.19(116, 3)         56.03( 59, 1)
     3027.      5010.     348.        56.40( 88, 2)         47.19( 91,23)         46.72(108,24)         44.48(104,21)         43.88(125,19)
     3027.      5610.     372.        65.78(115,22)         38.68(  2,20)         33.34(363, 3)         33.13(  9,23)         31.90(115, 6)
     3227.      5010.     338.        54.10(115, 5)         52.27( 91,23)         48.55(125,19)         47.57( 88, 2)         43.78(116, 3)
     3227.      5210.     345.        53.01( 88, 2)         43.18(108,24)         42.83( 91,23)         41.30(104,21)         39.86(125,19)
     3227.      5610.     362.        52.36(115,22)         40.33(115, 1)         36.62(  2,20)         35.93(  9,23)         32.65(366, 6)
     3227.      6010.     373.        63.75(115,22)         33.56(115, 1)         31.30(  2,20)         30.71(363, 3)         29.20(104, 5)

 * - DENOTES PEAK VALUE
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              POSTZ               (DATED 86224)
1                                                                                                POSTZ - PAGE NO.   1


                                           POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

             POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - NOX - 04/15/92 - MPV
             SHORTZ RUN TITLE:  ********************************************************************************

             ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                          0
             ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                    0
             ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                      0
             ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)           0
             ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                     0

        1-HOUR AVERAGE ANALYSIS:
             ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         1
             ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                         0
             ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

        3-HOUR AVERAGE ANALYSIS:
             ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         0
             ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
             ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

        8-HOUR AVERAGE ANALYSIS:
             ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
             ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
             ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

        24-HOUR AVERAGE ANALYSIS:
             ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
             ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
             ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

        ANNUAL AVERAGE ANALYSIS:
             ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
             ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
             ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

        USER-SPECIFIED AVERAGING TIME ANALYSIS
             ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
             ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
             ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

             ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                             0
             ISW(25) CALMS POLICY (1=YES,0=NO)                                                 0


             JULIAN DAY FOR START OF ANALYSIS                                                  1
             YEAR FOR START OF ANALYSIS                                                       91
             JULIAN DAY FOR END OF ANALYSIS                                                    5
             YEAR FOR END OF ANALYSIS                                                         92
1                                                                                                POSTZ - PAGE NO.   2


                                              HIGH FIVE TABLE FOR     1 HOUR AVERAGES

  RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
        METERS                                                    VALUE(DAY,ENDING HOUR)

     X           Y        ELEV.         HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH             5TH HIGH
----------------------------------------------------------------------------------------------------------------------------------------
     2127.       1210.     308.      470.46(132,19)      470.21(122,20)      470.21( 92, 1)      470.21(106, 1)      447.64(134, 6)
     2227.       1210.     305.      509.02( 87, 1)      499.20(148,18)      497.65(134, 4)      453.50(122,20)      453.50( 92, 1)
     2327.       1210.     305.      507.58( 70, 2)      498.60(144,19)      459.91(106, 3)      437.62( 63, 1)      374.71( 77,22)
     2427.       1210.     305.      431.23( 95, 5)      431.23( 89,20)      426.99(135,23)      379.42( 88, 6)      379.42( 77,22)
     2527.       1210.     305.      316.03(149,18)      291.73(150,19)      257.69(135,23)      228.03(123,21)      227.18( 88, 3)
     2627.       1210.     305.      294.13( 88, 3)      285.70(150,19)      225.80( 93, 4)      211.80(123,21)      193.15(359, 5)
     2037.       1231.     311.      770.81(114, 5)*     754.59(115, 2)*     754.59(115, 4)      754.53( 77, 4)      601.52( 74, 7)
     2027.       1310.     313.      564.89( 92,23)      553.20(366, 6)      549.11(115,24)      549.11(116, 2)      544.87( 97, 5)
     2127.       1310.     307.      425.12(114, 5)      405.89(115, 2)      405.89(115, 4)      405.85( 77, 4)      375.88(115, 5)
     2227.       1310.     305.      357.98(132,19)      357.93(134, 6)      357.90( 98, 3)      353.06(115, 5)      331.18(148, 6)
     2327.       1310.     305.      368.39(122,20)      368.39( 92, 1)      368.39(106, 1)      352.40(132,19)      351.30(148,18)
     2427.       1310.     305.      372.73(134, 4)      343.47( 87, 1)      327.32( 63, 1)      296.00(148,18)      270.27(144,19)
     2527.       1310.     305.      342.45( 70, 2)      328.05(144,19)      312.16(106, 3)      278.49( 63, 1)      252.00( 88, 6)
     2627.       1310.     305.      296.15( 95, 5)      296.14( 89,20)      293.17( 88, 6)      293.17( 77,22)      293.12(140,22)
     2027.       1410.     313.      429.40(115, 6)      421.63(114, 4)      406.64(366, 6)      402.67(114, 3)      393.19(115, 1)
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   2127.        1410.     308.      495.75(115, 2)      495.75(115, 4)      495.64( 77, 4)      493.15(114, 5)      410.14( 92,23)
   2227.        1410.     305.      281.65(115, 5)      244.12(134, 6)      244.11( 98, 3)      238.63( 91,23)      222.46(103,19)
   2327.        1410.     305.      298.35(134, 6)      298.30( 98, 3)      295.90(115, 5)      258.43(148, 6)      256.51(132,19)
   2427.        1410.     305.      296.40(132,19)      284.37(122,20)      284.37( 92, 1)      284.37(106, 1)      269.46(118,24)
   2527.        1410.     305.      293.15(148,18)      285.32( 87, 1)      255.80(134, 4)      250.85(122,20)      250.84( 92, 1)
   2627.        1410.     305.      265.29( 63, 1)      254.50(134, 4)      230.05(144,19)      215.45( 87, 1)      182.60( 70, 2)
   2327.         410.     310.      539.68(137, 5)      490.62(138, 1)      489.89( 77, 3)      489.79( 98, 4)      489.79(153,22)
   2427.         410.     307.      382.58(123, 1)      382.58(138, 5)      381.50(123, 3)      381.50(134,19)      368.38(109, 4)
   2527.         410.     305.      313.29(127, 2)      300.88(114, 6)      298.93( 97,24)      298.93( 98, 6)      298.93(151,24)
   2627.         410.     305.      296.12( 92, 4)      296.12(123, 2)      296.12(150, 7)      290.28( 77, 2)      290.28( 94, 3)
   2262.         433.     311.      770.74(117, 6)      744.13(153, 2)      698.05( 87,22)      698.05(132,24)      649.22(146,20)
   2262.         510.     312.      581.04( 98, 4)      581.04(153,22)      550.89( 97,24)      550.89( 98, 6)      550.89(151,24)
   2327.         510.     309.      425.31(132,19)      399.63( 98, 3)      399.63(134, 6)      394.66(148, 6)      386.64(118,24)
   2427.         510.     304.      392.45(114, 6)      381.03( 98, 5)      377.13(298, 6)      375.19(127, 2)      346.40(137, 3)
   2527.         510.     304.      349.80( 77, 2)      349.80( 94, 3)      341.71( 92, 5)      332.25( 92, 4)      332.25(123, 2)
   2627.         510.     305.      269.68(109, 4)      261.01( 73,22)      261.01( 85, 1)      261.01( 95, 4)      257.23(123, 1)
   2227.         610.     311.      552.63(153, 2)      547.09( 87,22)      547.09(132,24)      515.70(124, 3)      501.60(117, 6)
   2327.         610.     308.      493.46( 98, 5)      481.85( 92, 4)      481.85(123, 2)      481.85(150, 7)      476.34(114, 6)
   2427.         610.     304.      417.02( 92, 5)      408.26( 93, 2)      393.03( 77, 2)      393.03( 94, 3)      384.29( 73,22)
   2527.         610.     305.      318.05(151, 6)      295.87(123, 4)      283.48(123, 3)      283.48(134,19)      274.19(125,20)
   2627.         610.     305.      287.77(123, 4)      275.77(151, 6)      202.58(125,20)      190.57(136, 5)      190.53(153,23)
   2227.         710.     311.      645.21( 92, 4)      645.21(123, 2)      645.21(150, 7)      629.73( 98, 5)      628.99( 77, 2)
   2327.         710.     308.      484.87( 73,22)      484.87( 85, 1)      484.87( 95, 4)      471.52(109, 4)      461.22( 93, 2)
   2427.         710.     306.      298.01(123, 4)      272.70(151, 6)      252.47(136, 5)      252.46(153,23)      252.46(124, 5)
   2527.         710.     304.      280.27(123, 4)      270.66( 73,23)      247.54( 70, 5)      245.69(151, 6)      235.46(136, 5)
   2627.         710.     305.      263.92(123, 4)      223.56(136, 5)      223.52(153,23)      223.52(124, 5)      222.38(151, 6)
   2227.         810.     310.      437.26(136, 5)      437.26(124, 5)      437.26(153,23)      405.55(123, 4)      361.61(366, 6)
   2327.         810.     307.      385.49(136, 5)      385.49(153,23)      385.49(124, 5)      370.51( 73,23)      359.66(123, 4)
   2427.         810.     305.      350.49(136, 5)      350.49(153,23)      350.49(124, 5)      313.83(123, 4)      279.56(359, 2)
   2527.         810.     304.      323.42(136, 5)      323.41(153,23)      323.41(124, 5)      278.96(123, 4)      253.24(359, 2)
   2627.         810.     305.      300.99(136, 5)      300.97(153,23)      300.97(124, 5)      253.28(123, 4)      232.48(359, 2)

* - DENOTES PEAK VALUE
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              POSTZ              (DATED 86224)
1                                                                                              POSTZ - PAGE NO.   1


                                      POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

             POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - NOX - 04/13/92 - MPV
             SHORTZ RUN TITLE:  ********************************************************************************

             ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                        0
             ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                  0
             ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                    0
             ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)         0
             ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                   0

        1-HOUR AVERAGE ANALYSIS:
             ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
             ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                       0
             ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

        3-HOUR AVERAGE ANALYSIS:
             ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
             ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                      0
             ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

        8-HOUR AVERAGE ANALYSIS:
             ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      0
             ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                      0
             ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

        24-HOUR AVERAGE ANALYSIS:
             ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      0
             ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                      0
             ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

        ANNUAL AVERAGE ANALYSIS:
             ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      1
             ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                      0
             ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

        USER-SPECIFIED AVERAGING TIME ANALYSIS
             ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      0
             ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                      0
             ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

             ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                           0
             ISW(25) CALMS POLICY (1=YES,0=NO)                                               0


             JULIAN DAY FOR START OF ANALYSIS                                                1
             YEAR FOR START OF ANALYSIS                                                     91
             JULIAN DAY FOR END OF ANALYSIS                                                  5
             YEAR FOR END OF ANALYSIS                                                       92
1                                                                                              POSTZ - PAGE NO.   2


                                         HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
       METERS                                                  VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------------
  -5973.     -2390.     798.       0.04(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -5973.     -1390.     793.       0.05(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -5973.      -390.     781.       0.07(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -5973.       610.     852.       0.11(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -5973.      1610.     731.       0.18(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -5973.      2610.     730.       0.18(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -5973.      3610.     728.       0.17(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -5973.      4610.     747.       0.17(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -5973.      5610.     625.       0.16(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -4973.     -2390.     797.       0.05(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -4973.     -1390.     731.       0.09(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -4973.      -390.     652.       0.16(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -4973.      1610.     771.       0.25(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -4973.      2610.     792.       0.23(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -4973.      3610.     904.       0.19(   4,24)       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
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   -4973.       4610.     858.          0.17(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4973.       5610.     570.          0.18(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4773.        410.     646.          0.69(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4773.        610.     669.          0.87(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4773.        810.     666.          0.65(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4773.       1010.     695.          0.48(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4773.       1210.     730.          0.35(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4773.       1210.     730.          0.35(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4573.        410.     633.          1.49(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4573.       1210.     722.          0.36(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4573.       4810.     853.          0.17(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4373.         10.     609.          0.71(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4373.        210.     554.          0.26(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4373.        410.     583.          1.03(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4373.       1410.     694.          0.39(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4373.       1610.     756.          0.36(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4373.       1610.     756.          0.36(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4373.       4810.     856.          0.18(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4173.         10.     553.          0.39(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4173.       1610.     787.          0.40(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -4173.       4810.     828.          0.19(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.      -2390.     767.          0.09(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.      -1390.     732.          0.18(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.       -390.     548.          0.40(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.         10.     549.          0.90(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.        610.     722.          1.09(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.       1610.     773.          0.43(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.       2610.     875.          0.33(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.       3610.     914.          0.25(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.       4610.     954.          0.18(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.       4810.     838.          0.19(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3973.       5610.     686.          0.18(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3773.         10.     549.          0.69(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3773.       1610.     755.          0.43(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
1                                                                                                                  POSTZ - PAGE NO.   3


                                              HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                              HIGHEST FIVE CONCENTRATIONS
       METERS                                                       VALUE(DAY,ENDING HOUR)

    X            Y         ELEV.           HIGHEST              2ND HIGH              3RD HIGH              4TH HIGH              5TH HIGH
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   -3773.       1810.     792.          0.41(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3773.       2010.     824.          0.38(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3773.       4810.     839.          0.19(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3573.         10.     549.          0.57(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3573.       2010.     848.          0.40(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3573.       4810.     852.          0.19(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3373.         10.     549.          0.50(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3373.       2010.     799.          0.47(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3373.       4810.     831.          0.20(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3273.       2010.     787.          0.52(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3273.       2210.     841.          0.48(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3273.       2410.     862.          0.46(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3173.         10.     567.          0.54(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3173.       2410.     841.          0.51(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -3173.       4810.     806.          0.20(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.      -2390.     661.          0.17(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.      -1390.     613.          0.29(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.       -390.     609.          0.54(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.         10.     601.          0.70(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.        610.     579.          1.61(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.       1610.     823.          0.57(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.       2410.     784.          0.67(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.       2610.     786.          0.63(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.       3610.     865.          0.33(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.       4610.     770.          0.24(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.       4810.     747.          0.22(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2973.       5610.     642.          0.18(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2773.         10.     609.          1.06(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2773.       2410.     731.          0.79(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2773.       4810.     724.          0.23(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2573.         10.     587.          1.57(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2573.       2410.     732.          0.90(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2573.       4810.     713.          0.23(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2373.         10.     574.          2.83(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
   -2373.       2410.     726.          0.97(   4,24)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)        0.00(   0,  0)
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     -2373.     4810.    700.        0.23(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -2173.       10.    564.        2.69(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -2173.     2410.    675.        1.01(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -2173.     4810.    675.        0.25(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.    -2390.    487.        0.29(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.    -1390.    522.        0.42(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.     -390.    487.        0.94(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.     -190.    526.        1.35(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.       10.    549.        1.75(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.      210.    549.        2.16(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.      410.    547.        2.99(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.      610.    479.        1.31(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.     1610.    768.        2.32(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.     2410.    675.        1.03(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
1                                                                                                POSTZ - PAGE NO.    4


                                              HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
      METERS                                                     VALUE(DAY,ENDING HOUR)

      X           Y        ELEV.          HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
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     -1973.     2610.    799.        0.76(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.     3610.    696.        0.42(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.     4610.    628.        0.29(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.     4810.    646.        0.26(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1973.     5610.    597.        0.21(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1773.     -790.    529.        0.72(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1773.     -590.    497.        0.85(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1773.      210.    539.        1.65(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1773.      410.    491.        1.93(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1773.     2410.    668.        1.11(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1773.     4810.    609.        0.28(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.    -1190.    433.        0.55(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.     -990.    459.        0.64(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.     -790.    482.        0.74(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.     -590.    487.        0.85(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.     -390.    465.        0.95(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.     -190.    475.        1.11(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.       10.    505.        1.38(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.      210.    495.        1.61(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.      410.    482.        2.05(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.     2410.    648.        1.19(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1573.     4810.    609.        0.29(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1373.    -1190.    427.        0.58(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1373.     2410.    609.        1.37(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1373.     4810.    575.        0.30(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1173.    -1190.    423.        0.62(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1173.     -990.    423.        0.69(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1173.     -790.    424.        0.78(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1173.     -590.    425.        0.90(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1173.     -390.    425.        1.09(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1173.     2410.    610.        1.50(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
     -1173.     4810.    555.        0.32(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.    -2390.    407.        0.39(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.    -1390.    411.        0.62(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.     -390.    421.        1.31(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.     -190.    423.        1.69(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.      610.    387.       11.64(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.     1610.    594.        7.67(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.     2410.    610.        1.52(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.     2610.    609.        1.23(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.     3610.    609.        0.57(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.     4610.    551.        0.35(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.     4810.    549.        0.32(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -973.     5610.    549.        0.23(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -773.     -190.    420.        2.09(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -773.     2010.    603.        2.65(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -773.     2210.    610.        1.95(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -773.     2410.    610.        1.48(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
      -773.     4810.    549.        0.31(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
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                                              HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)
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RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
      METERS                                                  VALUE(DAY,ENDING HOUR)

    X              Y        ELEV.          HIGHEST               2ND HIGH               3RD HIGH               4TH HIGH               5TH HIGH
----------------------------------------------------------------------------------------------------------------------------------------------
      -573.       -190.     417.        2.60(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -573.       2010.     593.        2.24(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -573.       2210.     609.        1.79(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -573.       2410.     610.        1.45(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -573.       4810.     572.        0.30(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -373.       -390.     410.        2.23(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -373.       -190.     418.        2.94(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -373.       2010.     564.        2.10(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -373.       2210.     594.        1.65(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -373.       2410.     599.        1.38(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -373.       4810.     598.        0.28(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -173.       -390.     402.        2.50(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -173.       2410.     502.        1.55(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      -173.       4810.     609.        0.27(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.      -2390.     366.        0.56(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.      -1390.     366.        1.03(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.       -590.     384.        2.17(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.       -390.     392.        3.02(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.        610.     293.        5.55(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.       1610.     502.        4.34(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.       2410.     428.        1.52(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.       2610.     489.        1.28(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.       3610.     555.        0.55(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.       4610.     605.        0.28(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.       4810.     609.        0.26(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
        27.       5610.     487.        0.27(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       227.       -590.     373.        2.38(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       227.       2410.     426.        1.54(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       227.       4810.     608.        0.26(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       427.       -790.     365.        1.97(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       427.       -590.     366.        2.40(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       427.       2410.     424.        1.60(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       427.       4810.     575.        0.28(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       627.       -790.     360.        2.01(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       627.       2410.     408.        1.59(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       627.       4810.     548.        0.31(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       827.       -790.     355.        2.25(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       827.       2410.     372.        1.47(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
       827.       4810.     563.        0.31(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.      -2390.     339.        0.70(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.      -1390.     346.        1.30(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.       -790.     350.        2.25(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.       -390.     351.        2.78(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.        610.     320.        3.96(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.       1610.     398.        5.72(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.       2410.     363.        1.42(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.       2610.     365.        1.23(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.       3610.     422.        0.58(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.       4610.     541.        0.34(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
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                                                  HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
      METERS                                                  VALUE(DAY,ENDING HOUR)

    X              Y        ELEV.          HIGHEST               2ND HIGH               3RD HIGH               4TH HIGH               5TH HIGH
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      1027.       4810.     548.        0.32(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1027.       5610.     600.        0.21(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1227.       -790.     344.        2.15(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1227.       2410.     355.        1.40(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1227.       4810.     585.        0.28(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1427.       -990.     337.        1.87(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1427.       -790.     338.        2.07(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1427.       2410.     346.        1.29(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1427.       4810.     588.        0.27(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1627.      -1190.     331.        1.66(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1627.       -990.     332.        1.84(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1627.       1610.     331.        3.30(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1627.       1810.     331.        2.82(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1627.       2010.     332.        1.94(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1627.       2210.     333.        1.52(  4,24)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)         0.00(   0,  0)
      1627.        2410.     337.          1.26(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      1627.        4810.     532.          0.29(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      1627.        5010.     533.          0.27(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      1827.       -1390.     325.          1.50(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      1827.       -1190.     326.          1.63(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      1827.        1610.     321.          2.81(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      1827.        5010.     486.          0.30(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.       -2390.     309.          0.84(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.       -1390.     320.          1.44(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.        -390.     322.          2.92(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.         610.     317.         14.16(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.        1410.     313.          4.14(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2037.        1231.     311.         14.15(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.        1610.     312.          2.66(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.        2610.     327.          0.93(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.        3610.     342.          0.55(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.        4610.     440.          0.35(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.        5010.     469.          0.31(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2027.        5610.     515.          0.23(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2227.       -1590.     313.          1.28(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2227.         610.     311.         17.02(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2227.         810.     310.         11.75(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2227.        1210.     305.          5.74(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2227.        1410.     305.          3.01(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2227.        5010.     438.          0.30(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2427.       -1590.     309.          1.28(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2427.         410.     307.          8.09(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2427.         610.     304.          7.65(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2427.         810.     305.          6.13(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2427.        1210.     305.          3.64(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2427.        5010.     426.          0.29(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.       -1590.     304.          1.22(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.       -1390.     304.          1.31(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.        -390.     305.          2.48(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
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                                                                                                             POSTZ - PAGE NO.   7


                                          HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

   RECEPTOR COORDINATES                                                 HIGHEST FIVE CONCENTRATIONS
        METERS                                                           VALUE(DAY,ENDING HOUR)

       X             Y          ELEV.          HIGHEST              2ND HIGH             3RD HIGH             4TH HIGH             5TH HIGH
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      2627.        -190.     304.          3.49(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.          10.     305.          4.39(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.         210.     305.          5.06(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.         410.     305.          4.96(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.         610.     305.          4.30(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.         810.     305.          3.66(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.        1010.     305.          3.24(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.        1210.     305.          2.63(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2262.         433.     311.         20.48(  4,24)*        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2627.        5010.     380.          0.29(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2827.       -1390.     301.          1.31(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2827.       -1190.     302.          1.43(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2827.        -990.     302.          1.52(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2827.        -790.     302.          1.65(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2827.        -590.     303.          1.91(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2827.        -390.     303.          2.44(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2827.        -190.     303.          2.98(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2827.          10.     303.          3.12(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      2827.        5010.     358.          0.29(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.       -2390.     297.          0.88(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.       -1390.     298.          1.24(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.        -390.     300.          2.20(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.         610.     301.          2.31(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.        1610.     302.          1.33(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.        2610.     303.          0.68(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.        3610.     305.          0.45(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.        4610.     333.          0.33(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.        5010.     348.          0.29(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3027.        5610.     372.          0.24(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3227.        5010.     338.          0.28(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3227.        5210.     345.          0.27(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3227.        5610.     362.          0.24(  4,24)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
      3227.        6010.     373.          0.21(  4,24)         0.00(  0, 0)*        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)

 * - DENOTES PEAK VALUE
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         POSTZ             (DATED 86224)
1                                                                              POSTZ - PAGE NO.   1


                                  POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

          POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - NOX - 04/13/92 - MPV
          SHORTZ RUN TITLE:  ********************************************************************************

          ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                         0
          ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                   0
          ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                     0
          ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)          0
          ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                    0

     1-HOUR AVERAGE ANALYSIS:
          ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
          ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
          ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

     3-HOUR AVERAGE ANALYSIS:
          ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
          ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

     8-HOUR AVERAGE ANALYSIS:
          ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

     24-HOUR AVERAGE ANALYSIS:
          ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

     ANNUAL AVERAGE ANALYSIS:
          ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
          ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

     USER-SPECIFIED AVERAGING TIME ANALYSIS
          ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

          ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                            0
          ISW(25) CALMS POLICY (1=YES,0=NO)                                                0


          JULIAN DAY FOR START OF ANALYSIS                                                 1
          YEAR FOR START OF ANALYSIS                                                      91
          JULIAN DAY FOR END OF ANALYSIS                                                   5
          YEAR FOR END OF ANALYSIS                                                        92
1                                                                              POSTZ - PAGE NO.   2


                                        HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
      METERS                                                 VALUE(DAY,ENDING HOUR)

   X            Y        ELEV.        HIGHEST          2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
------------------------------------------------------------------------------------------------------------------------
    2327.        410.     310.        14.15(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2427.        410.     307.         8.09(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2527.        410.     305.         6.12(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2627.        410.     305.         4.96(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2262.        433.     311.        20.48(  4,24)*    0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2262.        510.     312.        16.99(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2327.        510.     309.        11.16(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2427.        510.     304.         7.75(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2527.        510.     304.         6.02(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2627.        510.     305.         4.66(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2227.        610.     311.        17.02(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2327.        610.     308.        11.52(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2427.        610.     304.         7.65(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2527.        610.     305.         5.40(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2627.        610.     305.         4.30(  4,24)     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
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  2227.        710.    311.        15.95(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
  2327.        710.    308.         8.70(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
  2427.        710.    306.         6.68(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
  2527.        710.    304.         5.08(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
  2627.        710.    305.         4.10(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
  2227.        810.    310.        11.75(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
  2327.        810.    307.         8.23(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
  2427.        810.    305.         6.13(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
  2527.        810.    304.         4.65(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
  2627.        810.    305.         3.66(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
     0.          0.      0.        15.22(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
     0.          0.      0.        15.22(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
     0.          0.      0.        15.22(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
     0.          0.      0.        15.22(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
     0.          0.      0.        15.22(  4,24)        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)
     0.          0.      0.        15.22(  4,24)        0.00(  0, 0)*        0.00(  0, 0)         0.00(  0, 0)         0.00(  0, 0)

* - DENOTES PEAK VALUE
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          POSTZ               (DATED 86224)
1                                                                                    POSTZ - PAGE NO.   1



                                      POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

          POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - PM10 - 04/17/92 - MPV
          SHORTZ RUN TITLE:  ********************************************************************************

          ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                  0
          ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                            0
          ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                              0
          ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)   0
          ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)             0

     1-HOUR AVERAGE ANALYSIS:
          ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                             0

     3-HOUR AVERAGE ANALYSIS:
          ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                0
          ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                            0

     8-HOUR AVERAGE ANALYSIS:
          ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                0
          ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                0
          ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                            0

     24-HOUR AVERAGE ANALYSIS:
          ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                1
          ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                0
          ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                            0

     ANNUAL AVERAGE ANALYSIS:
          ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                1
          ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                0
          ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                            0

     USER-SPECIFIED AVERAGING TIME ANALYSIS
          ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                0
          ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                0
          ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                            0

          ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                     0
          ISW(25) CALMS POLICY (1=YES,0=NO)                                         0


          JULIAN DAY FOR START OF ANALYSIS                                          1
          YEAR FOR START OF ANALYSIS                                               91
          JULIAN DAY FOR END OF ANALYSIS                                            5
          YEAR FOR END OF ANALYSIS                                                 92
1                                                                                    POSTZ - PAGE NO.   2


                                            HIGH FIVE TABLE FOR    24 HOUR AVERAGES

  RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
       METERS                                                VALUE(DAY,ENDING HOUR)

     X           Y       ELEV.         HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
--------------------------------------------------------------------------------------------------------------------------
    -5973.     -2390.     798.        0.15(  1,24)      0.13( 97,24)      0.13(114,24)      0.11(355,24)      0.10(357,24)
    -5973.     -1390.     793.        0.32( 51,24)      0.25(365,24)      0.23(114,24)      0.21(106,24)      0.21(108,24)
    -5973.      -390.     781.        0.68(  7,24)      0.53( 77,24)      0.36( 68,24)      0.28( 72,24)      0.27(124,24)
    -5973.       610.     852.        0.72( 77,24)      0.57( 74,24)      0.52( 70,24)      0.48(111,24)      0.42(144,24)
    -5973.      1610.     731.        0.84( 70,24)      0.65( 74,24)      0.58( 96,24)      0.51(135,24)      0.49(134,24)
    -5973.      2610.     730.        0.61( 74,24)      0.50(136,24)      0.47( 94,24)      0.45(132,24)      0.43( 96,24)
    -5973.      3610.     728.        0.33( 95,24)      0.32( 98,24)      0.31( 77,24)      0.30(123,24)      0.29( 94,24)
    -5973.      4610.     747.        0.32( 96,24)      0.31( 70,24)      0.28( 74,24)      0.28(151,24)      0.26(139,24)
    -5973.      5610.     625.        0.44( 96,24)      0.33( 74,24)      0.33(218,24)      0.28(147,24)      0.26(134,24)
    -4973.     -2390.     797.        0.29(114,24)      0.22(115,24)      0.16(  1,24)      0.15(117,24)      0.14(351,24)
    -4973.     -1390.     731.        0.54(350,24)      0.51( 74,24)      0.37( 55,24)      0.32(351,24)      0.30(  3,24)
    -4973.      -390.     652.        0.94(365,24)      0.75(106,24)      0.71(120,24)      0.61( 77,24)      0.61(117,24)
    -4973.      1610.     771.        0.97(123,24)      0.82( 95,24)      0.81(107,24)      0.81(100,24)      0.80( 77,24)
    -4973.      2610.     792.        0.55( 74,24)      0.48(112,24)      0.40(135,24)      0.39( 96,24)      0.38(106,24)
    -4973.      3610.     904.        0.39(136,24)      0.36(132,24)      0.33(105,24)      0.33(139,24)      0.31(150,24)
    -4973.      4610.    858.        0.36( 96,24)          0.29(100,24)          0.28( 89,24)          0.27(105,24)          0.26(107,24)
    -4973.      5610.    570.        0.40( 96,24)          0.33(218,24)          0.30(134,24)          0.30( 74,24)          0.27(132,24)
    -4773.       410.    646.        4.89( 77,24)          4.19( 88,24)          3.93(106,24)          3.62( 74,24)          3.28( 95,24)
    -4773.       610.    669.        4.74(105,24)          4.69( 96,24)          3.88( 70,24)          3.85( 89,24)          3.52(151,24)
    -4773.       810.    666.        3.18(132,24)          2.82(133,24)          2.81(112,24)          2.19(150,24)          2.05( 74,24)
    -4773.      1010.    695.        2.32(132,24)          2.17( 74,24)          1.86( 94,24)          1.83(136,24)          1.82(133,24)
    -4773.      1210.    730.        1.46(123,24)          1.29(147,24)          1.23( 77,24)          1.18( 95,24)          1.15(107,24)
    -4773.      1210.    730.        1.46(123,24)          1.29(147,24)          1.23( 77,24)          1.18( 95,24)          1.15(107,24)
    -4573.       410.    633.        8.26( 94,24)          6.74( 88,24)          6.56(113,24)          6.53( 72,24)          5.99(105,24)
    -4573.      1210.    722.        1.40( 39,24)          1.30(148,24)          1.10( 45,24)          1.10( 77,24)          1.09( 92,24)
    -4573.      4810.    853.        0.34(134,24)          0.31( 96,24)          0.28(132,24)          0.28( 89,24)          0.28(135,24)
    -4373.        10.    609.        8.07(  1,24)          6.24(365,24)          4.06(350,24)          3.99(357,24)          3.93(107,24)
    -4373.       210.    554.        1.87( 77,24)          1.47(354,24)          1.18( 72,24)          1.15(107,24)          1.09(361,24)
    -4373.       410.    583.        5.76( 67,24)          5.50( 69,24)          4.70( 66,24)          4.51( 75,24)          3.85(112,24)
    -4373.      1410.    694.        1.14( 92,24)          1.06( 76,24)          1.04( 38,24)          0.98(104,24)          0.97( 45,24)
    -4373.      1610.    756.        0.97( 92,24)          0.94( 76,24)          0.90( 89,24)          0.89( 70,24)          0.88(135,24)
    -4373.      1610.    756.        0.97( 92,24)          0.94( 76,24)          0.90( 89,24)          0.89( 70,24)          0.88(135,24)
    -4373.      4810.    856.        0.32(132,24)          0.30( 96,24)          0.26(134,24)          0.25(112,24)          0.25(135,24)
    -4173.        10.    553.        2.05(  1,24)          1.77(347,24)          1.64(230,24)          1.30(342,24)          1.24(346,24)
    -4173.      1610.    787.        1.24( 74,24)          1.13( 70,24)          0.99( 63,24)          0.93( 64,24)          0.92(144,24)
    -4173.      4810.    828.        0.37(132,24)          0.35(133,24)          0.35(134,24)          0.28( 96,24)          0.25(150,24)
    -3973.     -2390.    767.        0.45( 23,24)          0.34( 74,24)          0.32( 73,24)          0.27( 78,24)          0.27( 55,24)
    -3973.     -1390.    732.        0.70(114,24)          0.64( 22,24)          0.63(  1,24)          0.58( 23,24)          0.54( 55,24)
    -3973.      -390.    548.        1.50(249,24)          1.16( 27,24)          1.09( 26,24)          1.05(157,24)          0.98( 19,24)
    -3973.        10.    549.        4.11( 20,24)          3.52( 12,24)          3.26( 16,24)          2.96( 25,24)          2.93(  2,24)
    -3973.       610.    722.        5.23( 37,24)          5.04( 62,24)          4.37( 29,24)          3.93( 28,24)          3.46( 41,24)
    -3973.      1610.    773.        1.20( 41,24)          1.17(134,24)          1.13( 84,24)          1.08( 74,24)          0.99(128,24)
    -3973.      2610.    875.        0.65( 88,24)          0.56(128,24)          0.48(139,24)          0.47(123,24)          0.47(133,24)
    -3973.      3610.    914.        0.40(105,24)          0.39(148,24)          0.37( 96,24)          0.37( 89,24)          0.36(149,24)
    -3973.      4610.    954.        0.41(132,24)          0.28(134,24)          0.27(133,24)          0.25( 96,24)          0.24(105,24)
    -3973.      4810.    838.        0.41(132,24)          0.35(134,24)          0.35(133,24)          0.27(150,24)          0.26( 96,24)
    -3973.      5610.    686.        0.43( 74,24)          0.36(133,24)          0.32(132,24)          0.25(134,24)          0.25( 84,24)
    -3773.        10.    549.        2.19(  4,24)          1.66(327,24)          1.63( 34,24)          1.61(336,24)          1.51(156,24)
    -3773.      1610.    755.        0.99( 74,24)          0.90(112,24)          0.83( 29,24)          0.82(109,24)          0.82(133,24)
1
                                                                                                         POSTZ - PAGE NO.   3


                                                  HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                  HIGHEST FIVE CONCENTRATIONS
      METERS                                                             VALUE(DAY,ENDING HOUR)

     X            Y       ELEV.         HIGHEST               2ND HIGH              3RD HIGH              4TH HIGH              5TH HIGH
---------------------------------------------------------------------------------------------------------------------------------------
    -3773.      1810.    792.        0.92(132,24)          0.90(109,24)          0.68( 68,24)          0.65( 85,24)          0.64(150,24)
    -3773.      2010.    824.        0.84(132,24)          0.81(136,24)          0.69(109,24)          0.62(126,24)          0.61( 85,24)
    -3773.      4810.    839.        0.44(132,24)          0.36(134,24)          0.34(133,24)          0.29(150,24)          0.28(136,24)
    -3573.        10.    549.        1.74(107,24)          1.63(  7,24)          1.29( 35,24)          1.28(336,24)          1.03(327,24)
    -3573.      2010.    848.        0.71( 88,24)          0.69(123,24)          0.68(147,24)          0.61( 77,24)          0.60(144,24)
    -3573.      4810.    852.        0.43(132,24)          0.42(134,24)          0.32(150,24)          0.28(136,24)          0.28(133,24)
    -3373.        10.    549.        0.89(107,24)          0.89(336,24)          0.88(103,24)          0.86(146,24)          0.80(131,24)
    -3373.      2010.    799.        0.99( 77,24)          0.89(123,24)          0.85( 95,24)          0.80( 88,24)          0.74( 82,24)
    -3373.      4810.    831.        0.43(134,24)          0.40(132,24)          0.39(133,24)          0.34(150,24)          0.26(136,24)
    -3273.      2010.    787.        1.01(148,24)          0.99( 77,24)          0.93(122,24)          0.82(149,24)          0.82( 88,24)
    -3273.      2210.    841.        0.91(148,24)          0.74(149,24)          0.73(122,24)          0.70( 88,24)          0.70( 96,24)
    -3273.      2410.    862.        0.71(148,24)          0.66(146,24)          0.63(139,24)          0.63(122,24)          0.61(105,24)
    -3173.        10.    567.        2.43( 96,24)          2.03(102,24)          1.90( 46,24)          1.68(131,24)          1.61(  9,24)
    -3173.      2410.    841.        0.93( 96,24)          0.79(122,24)          0.75(146,24)          0.68( 70,24)          0.67(105,24)
    -3173.      4810.    806.        0.39(133,24)          0.37(134,24)          0.37(132,24)          0.31(150,24)          0.29(147,24)
    -2973.     -2390.    661.        0.66(106,24)          0.56(352,24)          0.43(  3,24)          0.36( 68,24)          0.35( 56,24)
    -2973.     -1390.    613.        0.96( 40,24)          0.84(146,24)          0.79( 68,24)          0.74( 31,24)          0.74(114,24)
    -2973.      -390.    609.        2.08( 74,24)          1.99(  3,24)          1.50( 61,24)          1.49(350,24)          1.44(355,24)
    -2973.        10.    601.        2.91(365,24)          2.30(107,24)          2.16(131,24)          2.12(106,24)          2.09(101,24)
    -2973.       610.    579.        6.76( 96,24)          6.58(105,24)          5.46(122,24)          5.28( 94,24)          5.00( 88,24)
    -2973.      1610.    823.        1.06( 77,24)          1.03(148,24)          0.96( 39,24)          0.95(149,24)          0.92( 92,24)
    -2973.      2410.    784.        1.11( 70,24)          1.09(122,24)          1.04( 96,24)          0.97(151,24)          0.80( 74,24)
    -2973.      2610.    786.        1.11( 74,24)          1.03( 70,24)          0.93(122,24)          0.89( 96,24)          0.75(134,24)
    -2973.      3610.    865.        0.69(132,24)          0.54(150,24)          0.47(136,24)          0.44( 89,24)          0.42(135,24)
    -2973.      4610.    770.        0.49( 74,24)          0.42(133,24)          0.38(132,24)          0.36(134,24)          0.30(147,24)
    -2973.      4810.    747.        0.39( 74,24)          0.38(133,24)          0.35(132,24)          0.33(134,24)          0.30(123,24)
    -2973.      5610.    642.        0.34(132,24)          0.28(123,24)          0.27( 76,24)          0.25(147,24)          0.24(133,24)
    -2773.        10.    609.        6.48(  1,24)          6.23(114,24)          4.82(  3,24)          4.70(  1,24)          4.39(352,24)
    -2773.      2410.    731.        1.48( 70,24)          1.23( 74,24)          1.08( 96,24)          1.00( 89,24)          0.97(122,24)
    -2773.      4810.    724.        0.38(133,24)          0.37(123,24)          0.36(132,24)          0.33( 74,24)          0.31(134,24)
    -2573.        10.    587.        8.04( 27,24)          7.38(  2,24)          6.77( 18,24)          6.34(351,24)          6.25( 69,24)
    -2573.      2410.    732.        1.71( 74,24)          1.11(133,24)          1.10( 70,24)          1.09(104,24)          1.06( 96,24)
    -2573.      4810.    713.        0.41(133,24)          0.39(132,24)          0.36(123,24)          0.33( 74,24)          0.30(134,24)
    -2373.        10.    574.       11.28(130,24)          8.75( 15,24)          8.55( 22,24)          8.45(152,24)          7.78( 27,24)
    -2373.      2410.    726.        1.42( 74,24)          1.16(133,24)          1.02( 96,24)          1.01(104,24)          1.00(132,24)
    -2373.      4810.    700.    0.42(132,24)        0.39(133,24)        0.36(123,24)        0.35( 74,24)        0.29(120,24)
    -2173.        10.    564.    9.04(146,24)        8.25( 31,24)        7.91(  6,24)        7.82( 16,24)        7.45(130,24)
    -2173.      2410.    675.    1.24(132,24)        1.22(134,24)        1.21( 74,24)        1.20(120,24)        1.17(114,24)
    -2173.      4810.    675.    0.44(132,24)        0.37( 74,24)        0.36(123,24)        0.35( 45,24)        0.32( 76,24)
    -1973.     -2390.    487.    0.87(355,24)        0.82(114,24)        0.70(362,24)        0.68(365,24)        0.60(  1,24)
    -1973.     -1390.    522.    0.90( 85,24)        0.87(120,24)        0.78(  9,24)        0.75( 34,24)        0.73( 65,24)
    -1973.      -390.    487.    1.98(130,24)        1.79( 31,24)        1.73( 15,24)        1.72( 25,24)        1.68( 20,24)
    -1973.      -190.    526.    3.27( 16,24)        3.24( 20,24)        3.00( 68,24)        2.72(128,24)        2.62(  3,24)
    -1973.        10.    549.    9.11(119,24)        5.25(120,24)        4.79(132,24)        3.56(123,24)        3.13(109,24)
    -1973.       210.    549.   11.42(142,24)        8.87(131,24)        5.48(110,24)        5.22(104,24)        5.22(133,24)
    -1973.       410.    547.   14.54(145,24)       13.69(100,24)       12.73(144,24)       11.48(118,24)       10.46(111,24)
    -1973.       610.    479.    2.85( 54,24)        2.68(121,24)        2.59( 42,24)        2.52(215,24)        2.00( 30,24)
    -1973.      1610.    768.    2.74( 70,24)        2.60( 96,24)        2.41(122,24)        2.13( 74,24)        2.05(139,24)
    -1973.      2410.    675.    1.51(132,24)        1.37( 74,24)        1.11(123,24)        1.08( 94,24)        1.07(133,24)
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                                              HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
       METERS                                                    VALUE(DAY,ENDING HOUR)

     X           Y        ELEV.      HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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    -1973.      2610.    799.    1.27(132,24)        0.96(136,24)        0.91(134,24)        0.91(133,24)        0.83(139,24)
    -1973.      3610.    696.    0.79(134,24)        0.73(133,24)        0.67(120,24)        0.60(123,24)        0.54( 74,24)
    -1973.      4610.    628.    0.47(132,24)        0.46( 74,24)        0.40( 45,24)        0.39(120,24)        0.38(123,24)
    -1973.      4810.    646.    0.44(132,24)        0.36( 76,24)        0.35( 45,24)        0.35(123,24)        0.34( 74,24)
    -1973.      5610.    597.    0.45(107,24)        0.33( 96,24)        0.29(147,24)        0.28(290,24)        0.27( 45,24)
    -1773.      -790.    529.    1.69(143,24)        1.66(146,24)        1.60(130,24)        1.43(153,24)        1.26(149,24)
    -1773.      -590.    497.    1.55(  3,24)        1.54( 68,24)        1.47( 31,24)        1.42( 20,24)        1.41(143,24)
    -1773.       210.    539.    5.00(131,24)        4.91(142,24)        4.52( 99,24)        4.17(110,24)        3.69(104,24)
    -1773.       410.    491.    5.02(100,24)        4.03(118,24)        3.82(144,24)        2.97(104,24)        2.65(145,24)
    -1773.      2410.    668.    1.41(132,24)        1.38( 74,24)        1.34(123,24)        1.33(147,24)        1.09( 94,24)
    -1773.      4810.    609.    0.52(114,24)        0.43(107,24)        0.42(132,24)        0.41(120,24)        0.39( 45,24)
    -1573.     -1190.    433.    1.08(114,24)        0.90(352,24)        0.88(355,24)        0.80(351,24)        0.79(  3,24)
    -1573.      -990.    459.    1.05(351,24)        1.04(  3,24)        0.98(352,24)        0.97( 96,24)        0.83(355,24)
    -1573.      -790.    482.    1.24(  3,24)        1.07( 96,24)        0.97(351,24)        0.95( 31,24)        0.90( 68,24)
    -1573.      -590.    487.    1.66(149,24)        1.31(139,24)        1.28(  7,24)        1.24(  3,24)        1.08( 68,24)
    -1573.      -390.    465.    1.38(  3,24)        1.17(120,24)        1.13(  6,24)        1.12( 77,24)        1.10(112,24)
    -1573.      -190.    475.    2.00(  3,24)        1.93(354,24)        1.77( 93,24)        1.56( 77,24)        1.50( 94,24)
    -1573.        10.    505.    2.47(141,24)        2.19(142,24)        2.19(131,24)        1.85(133,24)        1.59( 74,24)
    -1573.       210.    495.    2.36(352,24)        2.30(131,24)        1.82(  3,24)        1.73( 77,24)        1.73(128,24)
    -1573.       410.    482.    3.38(100,24)        2.99(118,24)        2.77( 77,24)        2.67(144,24)        2.33(111,24)
    -1573.      2410.    648.    1.50( 96,24)        1.45(123,24)        1.34(147,24)        1.20( 74,24)        1.19(134,24)
    -1573.      4810.    609.    0.54(107,24)        0.44( 96,24)        0.42( 45,24)        0.40( 74,24)        0.39(132,24)
    -1373.     -1190.    427.    1.05(362,24)        1.04( 93,24)        1.02(352,24)        0.94(355,24)        0.94(117,24)
    -1373.      2410.    609.    2.15( 96,24)        1.84(107,24)        1.64( 74,24)        1.26(123,24)        1.18(133,24)
    -1373.      4810.    575.    0.66(107,24)        0.41( 96,24)        0.39(133,24)        0.38( 45,24)        0.36( 74,24)
    -1173.     -1190.    423.    1.89(352,24)        1.20(106,24)        1.19(114,24)        1.06(364,24)        0.97(365,24)
    -1173.      -990.    423.    1.22(362,24)        1.21(114,24)        1.19(363,24)        1.17(106,24)        1.16(352,24)
    -1173.      -790.    424.    1.74( 85,24)        1.46(363,24)        1.44(120,24)        1.15(  3,24)        1.15(106,24)
    -1173.      -590.    425.    1.68( 96,24)        1.58(363,24)        1.18(  3,24)        1.03(352,24)        0.98(149,24)
    -1173.      -390.    425.    2.00(  7,24)        1.69(363,24)        1.52(107,24)        1.39(139,24)        1.39(  3,24)
    -1173.      2410.    610.    1.79( 96,24)        1.74(107,24)        1.53(133,24)        1.31( 74,24)        1.22( 84,24)
    -1173.      4810.    555.    0.59(107,24)        0.58(123,24)        0.39( 94,24)        0.39(133,24)        0.34(290,24)
     -973.     -2390.    407.    1.12(352,24)        0.95(  3,24)        0.93(351,24)        0.89(  1,24)        0.77(114,24)
     -973.     -1390.    411.    1.42(  3,24)        1.24(117,24)        1.12(355,24)        1.08(114,24)        1.07(365,24)
     -973.      -390.    421.    3.30(149,24)        2.26(139,24)        1.64(124,24)        1.54(  3,24)        1.34(364,24)
     -973.      -190.    423.    2.94( 77,24)        2.83(107,24)        2.74( 98,24)        2.35( 93,24)        2.06(124,24)
     -973.       610.    387.    8.56(351,24)        8.38(355,24)        7.40(124,24)        5.93(  3,24)        5.91(113,24)
     -973.      1610.    594.    5.56(107,24)        4.35( 62,24)        4.20( 63,24)        4.04(104,24)        3.74( 45,24)
     -973.      2410.    610.    1.67(107,24)        1.65( 96,24)        1.49( 92,24)        1.38(120,24)        1.26(105,24)
     -973.      2610.    609.    1.59( 96,24)        1.35(107,24)        1.29(133,24)        1.19(134,24)        1.15( 92,24)
     -973.      3610.    609.    0.74( 74,24)        0.73( 62,24)        0.68(132,24)        0.68(133,24)        0.66(107,24)
     -973.      4610.    551.    0.68(123,24)        0.65(107,24)        0.44( 82,24)        0.43( 94,24)        0.40(108,24)
     -973.      4810.    549.    0.64(123,24)        0.62(107,24)        0.42( 82,24)        0.37( 94,24)        0.35(290,24)
     -973.      5610.    549.    0.45(107,24)        0.45(123,24)        0.32( 78,24)        0.31(290,24)        0.30( 94,24)
     -773.      -190.    420.    3.97( 77,24)        3.23(124,24)        2.95( 98,24)        2.56( 97,24)        2.42(107,24)
     -773.      2010.    603.    2.45( 63,24)        2.23( 96,24)        2.21(107,24)        2.15( 84,24)        2.01( 41,24)
     -773.      2210.    610.    2.22( 96,24)        1.93( 63,24)        1.65( 74,24)        1.62( 62,24)        1.61(107,24)
     -773.      2410.    610.    2.16( 96,24)        1.35(120,24)        1.31( 74,24)        1.31( 41,24)        1.31(140,24)
     -773.      4810.    549.    0.75(107,24)        0.54(123,24)        0.44( 78,24)        0.40( 82,24)        0.37( 63,24)
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                                              HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)
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  RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
        METERS                                                   VALUE(DAY,ENDING HOUR)

     X           Y       ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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      -573.      -190.    417.         5.53(  7,24)        5.27(124,24)        4.19(107,24)        3.71(139,24)        3.38( 97,24)
      -573.      2010.    593.         2.66( 96,24)        2.28(114,24)        2.15( 62,24)        1.91( 74,24)        1.89(134,24)
      -573.      2210.    609.         2.33(114,24)        2.32( 96,24)        1.77( 74,24)        1.75(134,24)        1.65(140,24)
      -573.      2410.    610.         2.29(114,24)        1.90( 96,24)        1.62( 74,24)        1.61(120,24)        1.55(134,24)
      -573.      4810.    572.         0.63(107,24)        0.44( 78,24)        0.38( 94,24)        0.38( 63,24)        0.36(290,24)
      -373.      -390.    410.        11.20(352,24)        6.53(114,24)        4.80( 68,24)        4.28(115,24)        4.19(355,24)
      -373.      -190.    418.         9.82( 96,24)        5.31(352,24)        4.08( 46,24)        3.93(  3,24)        3.61(103,24)
      -373.      2010.    564.         3.43(123,24)        2.98( 62,24)        2.57( 96,24)        2.49(107,24)        2.26( 74,24)
      -373.      2210.    594.         2.21( 96,24)        2.05(107,24)        1.99( 74,24)        1.79( 62,24)        1.65(133,24)
      -373.      2410.    599.         2.32(107,24)        2.11( 96,24)        1.90( 74,24)        1.60(133,24)        1.37(140,24)
      -373.      4810.    598.         0.46( 78,24)        0.43( 62,24)        0.40(114,24)        0.37(107,24)        0.36(290,24)
      -173.      -390.    402.        11.99(  3,24)        9.58(351,24)        7.89(352,24)        6.94(350,24)        5.64(355,24)
      -173.      2410.    502.         2.89(123,24)        2.72(140,24)        2.51( 96,24)        2.13( 74,24)        1.89(133,24)
      -173.      4810.    609.         0.64(114,24)        0.41( 45,24)        0.40( 39,24)        0.37(  5,24)        0.36( 62,24)
        27.     -2390.    366.         0.98(  3,24)        0.81( 97,24)        0.74(365,24)        0.74(363,24)        0.74(364,24)
        27.     -1390.    366.         2.30( 97,24)        1.70(  3,24)        1.57(364,24)        1.50(124,24)        1.42(  1,24)
        27.      -590.    384.         6.40( 23,24)        5.97( 73,24)        5.41( 97,24)        4.88(363,24)        4.49( 94,24)
        27.      -390.    392.        12.66( 94,24)       12.02(124,24)       11.18( 23,24)       11.05( 97,24)       10.44(136,24)
        27.       610.    293.         7.68( 63,24)        7.39( 41,24)        6.53( 81,24)        6.14(109,24)        6.00(107,24)
        27.      1610.    502.         6.73(140,24)        6.05(139,24)        5.92(104,24)        5.40( 63,24)        5.33(134,24)
        27.      2410.    428.         2.76(140,24)        2.39(123,24)        2.24(133,24)        2.22(115,24)        2.05( 96,24)
        27.      2610.    489.         2.36(140,24)        1.98( 74,24)        1.86(123,24)        1.82(133,24)        1.79( 96,24)
        27.      3610.    555.         0.76(107,24)        0.75(123,24)        0.68( 78,24)        0.67( 62,24)        0.64( 63,24)
        27.      4610.    605.         0.50( 45,24)        0.50( 63,24)        0.47( 39,24)        0.39(114,24)        0.37(290,24)
        27.      4810.    609.         0.49( 45,24)        0.46(114,24)        0.44( 39,24)        0.42( 63,24)        0.36( 37,24)
        27.      5610.    487.         0.55( 86,24)        0.54(285,24)        0.46(172,24)        0.43(150,24)        0.42(114,24)
       227.      -590.    373.        10.28(352,24)       10.02( 97,24)        9.02(135,24)        7.84(124,24)        7.68(138,24)
       227.      2410.    426.         3.39(140,24)        2.09(123,24)        2.07( 74,24)        2.06( 96,24)        1.90(218,24)
       227.      4810.    608.         0.54( 45,24)        0.52( 63,24)        0.46( 96,24)        0.45( 84,24)        0.42( 37,24)
       427.      -790.    365.         6.16(135,24)        5.67(124,24)        5.32( 87,24)        5.19(153,24)        4.71(117,24)
       427.      -590.    366.         8.81(137,24)        8.35(146,24)        6.33(150,24)        6.29(147,24)        5.65(114,24)
       427.      2410.    424.         3.00(114,24)        2.68(123,24)        2.23(134,24)        2.19(120,24)        2.16(115,24)
       427.      4810.    575.         0.53( 78,24)        0.52( 45,24)        0.48(107,24)        0.48( 84,24)        0.47( 63,24)
       627.      -790.    360.         6.92(150,24)        5.97(128,24)        5.55(126,24)        5.46(147,24)        4.52(137,24)
       627.      2410.    408.         2.70(115,24)        2.48( 96,24)        2.32( 97,24)        2.11( 92,24)        2.07(107,24)
       627.      4810.    548.         0.75(107,24)        0.59(123,24)        0.53( 82,24)        0.49(104,24)        0.49( 63,24)
       827.      -790.    355.         8.18(137,24)        7.79(126,24)        6.31(152,24)        5.92( 98,24)        5.41(150,24)
       827.      2410.    372.         2.94( 86,24)        2.38( 97,24)        2.30( 92,24)        2.13(115,24)        2.09(134,24)
       827.      4810.    563.         1.03(107,24)        0.68(114,24)        0.61(123,24)        0.55( 63,24)        0.53( 86,24)
      1027.     -2390.    339.         1.69(135,24)        1.22(352,24)        1.16( 97,24)        1.11(363,24)        1.04(124,24)
      1027.     -1390.    346.         2.23(137,24)        2.14(150,24)        2.07(146,24)        1.93(168,24)        1.83(147,24)
      1027.      -790.    350.         4.93(119,24)        4.85(152,24)        4.84(150,24)        4.31(147,24)        3.84(137,24)
      1027.      -390.    351.         5.91(133,24)        5.57(151,24)        4.65( 98,24)        4.02(127,24)        3.65(152,24)
      1027.       610.    320.         7.83( 89,24)        6.44(139,24)        6.16(149,24)        5.64(123,24)        5.57(134,24)
      1027.      1610.    398.        18.99( 70,24)*      18.65(218,24)*      14.71(151,24)       13.88(122,24)       13.73( 96,24)
      1027.      2410.    363.         2.91(115,24)        2.52( 92,24)        2.34( 86,24)        2.04( 45,24)        1.98(114,24)
      1027.      2610.    365.         2.62( 86,24)        2.17(115,24)        2.08( 92,24)        2.02(150,24)        1.83( 62,24)
      1027.      3610.    422.         1.62(107,24)        1.55( 86,24)        1.47( 93,24)        1.29( 92,24)        1.26(115,24)
      1027.      4610.    541.         0.87(107,24)        0.70( 81,24)        0.61(114,24)        0.59( 86,24)        0.58( 63,24)
1                                                                                                          POSTZ - PAGE NO.   6


                                                   HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
        METERS                                                   VALUE(DAY,ENDING HOUR)

     X           Y       ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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      1027.      4810.    548.         0.75(107,24)        0.64( 81,24)        0.60(114,24)        0.55( 63,24)        0.54( 86,24)
      1027.      5610.    600.         0.50(114,24)        0.46(113,24)        0.46( 63,24)        0.41(107,24)        0.36( 62,24)
      1227.      -790.    344.         3.22(152,24)        3.20( 85,24)        2.99(150,24)        2.82(126,24)        2.64(138,24)
      1227.      2410.    355.         3.82(115,24)        3.61( 86,24)        3.34(107,24)        3.08( 93,24)        2.92( 62,24)
      1227.      4810.    585.         0.58( 63,24)        0.52(113,24)        0.48(114,24)        0.47( 62,24)        0.43( 32,24)
      1427.      -990.    337.         3.27(152,24)        2.63(150,24)        2.61( 94,24)        2.58(124,24)        2.53( 85,24)
      1427.      -790.    338.         3.03( 98,24)        2.97( 97,24)        2.72(152,24)        2.61(124,24)        2.49( 73,24)
      1427.      2410.    346.         3.16( 63,24)        2.68(115,24)        1.96( 41,24)        1.96( 62,24)        1.90( 81,24)
      1427.      4810.    588.         0.71( 63,24)        0.57( 41,24)        0.50(104,24)        0.50( 62,24)        0.46(113,24)
      1627.     -1190.    331.         3.28(152,24)        2.89(136,24)        2.59(124,24)        2.38( 94,24)        2.38( 97,24)
      1627.      -990.    332.         2.99(124,24)        2.96( 98,24)        2.69( 97,24)        2.64(152,24)        2.49(138,24)
      1627.      1610.    331.         4.66(115,24)        4.16(114,24)        3.96(110,24)        3.82(134,24)        3.73( 91,24)
      1627.      1810.    331.         4.07( 89,24)        3.82(115,24)        3.32(122,24)        3.31(100,24)        3.21( 99,24)
      1627.      2010.    332.         4.76(115,24)        4.48(114,24)        4.23( 41,24)        3.83( 97,24)        3.77( 92,24)
      1627.      2210.    333.         4.85(115,24)        3.64(114,24)        3.28( 92,24)        3.23( 41,24)        3.16( 63,24)
     1627.        2410.    337.         3.76(115,24)        2.82(114,24)        2.67( 63,24)        2.46( 41,24)        2.03(134,24)
     1627.        4810.    532.         0.86( 63,24)        0.73( 41,24)        0.55( 62,24)        0.45( 81,24)        0.45(285,24)
     1627.        5010.    533.         0.77( 63,24)        0.68( 41,24)        0.48( 62,24)        0.44(285,24)        0.42( 81,24)
     1827.       -1390.    325.         3.38(152,24)        3.15(124,24)        2.30( 98,24)        2.20(136,24)        2.18(137,24)
     1827.       -1190.    326.         3.21(124,24)        2.85(152,24)        2.45(138,24)        2.32( 97,24)        2.28( 98,24)
     1827.        1610.    321.         6.65(115,24)        4.18(116,24)        3.89(114,24)        3.46( 92,24)        3.16( 29,24)
     1827.        5010.    486.         0.76( 63,24)        0.70(114,24)        0.67( 41,24)        0.58( 81,24)        0.58(172,24)
     2027.       -2390.    309.         1.90(124,24)        1.60(150,24)        1.40(126,24)        1.32(147,24)        1.22(168,24)
     2027.       -1390.    320.         2.35(152,24)        2.00( 97,24)        1.93(136,24)        1.93(124,24)        1.88( 98,24)
     2027.        -390.    322.         3.39(135,24)        3.34(151,24)        3.31(138,24)        3.16(125,24)        3.05(124,24)
     2027.         610.    317.        11.19(150,24)        8.83(126,24)        8.66(147,24)        7.41(128,24)        7.22( 95,24)
     2027.        1410.    313.        11.30(115,24)        5.50( 62,24)        4.90(114,24)        4.66(116,24)        4.63( 92,24)
     2037.        1231.    311.        17.21(115,24)        7.81( 62,24)        7.38(114,24)        6.90(134,24)        6.79(116,24)
     2027.        1610.    312.         9.68(115,24)        4.80(114,24)        4.07(116,24)        3.87( 70,24)        3.64( 62,24)
     2027.        2610.    327.         2.48(115,24)        1.93(114,24)        1.87( 62,24)        1.56(116,24)        1.50(109,24)
     2027.        3610.    342.         2.19(114,24)        1.97(115,24)        0.92( 62,24)        0.90( 81,24)        0.87( 41,24)
     2027.        4610.    440.         1.51(114,24)        0.97(115,24)        0.75( 81,24)        0.66( 62,24)        0.65( 41,24)
     2027.        5010.    469.         1.23(114,24)        0.79(115,24)        0.65( 81,24)        0.58( 41,24)        0.57( 63,24)
     2027.        5610.    515.         0.63(114,24)        0.58( 81,24)        0.49( 41,24)        0.47( 63,24)        0.45( 84,24)
     2227.       -1590.    313.         1.93(152,24)        1.84(136,24)        1.81( 97,24)        1.72( 98,24)        1.66(135,24)
     2227.         610.    311.         7.73(127,24)        7.15( 98,24)        7.14(151,24)        6.73(150,24)        6.51(137,24)
     2227.         810.    310.         5.81(149,24)        5.61(133,24)        5.51(109,24)        5.50(123,24)        5.41(134,24)
     2227.        1210.    305.         8.55(134,24)        7.17(120,24)        6.58(106,24)        5.79(122,24)        5.50(148,24)
     2227.        1410.    305.         4.66(115,24)        4.36(134,24)        3.47( 62,24)        3.26(103,24)        3.23( 91,24)
     2227.        5010.    438.         1.61(114,24)        1.01(115,24)        0.61(116,24)        0.59( 62,24)        0.56( 81,24)
     2427.       -1590.    309.         1.56(135,24)        1.53( 97,24)        1.36(138,24)        1.36(124,24)        1.33(136,24)
     2427.         410.    307.         4.85( 98,24)        4.57(150,24)        4.53(127,24)        4.43(151,24)        4.26(126,24)
     2427.         610.    304.         4.66(133,24)        4.53(123,24)        4.20(119,24)        3.87(132,24)        3.77(134,24)
     2427.         810.    305.         4.06( 99,24)        4.05(134,24)        3.88(123,24)        3.49(110,24)        3.49(149,24)
     2427.        1210.    305.         7.23( 89,24)        4.37( 88,24)        4.02(104,24)        3.84(106,24)        3.83(135,24)
     2427.        5010.    426.         1.41(114,24)        1.35(115,24)        0.60( 62,24)        0.58(116,24)        0.55(172,24)
     2627.       -1590.    304.         1.48(117,24)        1.44(135,24)        1.32(170,24)        1.30(138,24)        1.30(168,24)
     2627.       -1390.    304.         1.48(150,24)        1.46(137,24)        1.41(128,24)        1.40(168,24)        1.40(135,24)
     2627.        -390.    305.         2.41(133,24)        2.40(146,24)        2.30(151,24)        2.22(127,24)        2.07(137,24)
1                                                                                                        POSTZ - PAGE NO.   7


                                         HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                 HIGHEST FIVE CONCENTRATIONS
       METERS                                                          VALUE(DAY,ENDING HOUR)

      X            Y        ELEV.         HIGHEST              2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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     2627.        -190.    304.         3.15(147,24)        2.91(150,24)        2.78(110,24)        2.77(128,24)        2.64(126,24)
     2627.          10.    305.         3.79(150,24)        3.34(126,24)        3.28(147,24)        2.98(152,24)        2.93(125,24)
     2627.         210.    305.         3.64( 98,24)        3.63(127,24)        3.33(151,24)        3.29(152,24)        3.21(137,24)
     2627.         410.    305.         3.62(119,24)        3.34(123,24)        3.14(133,24)        3.08(132,24)        2.78(136,24)
     2627.         610.    305.         3.78(123,24)        3.04( 70,24)        2.89(138,24)        2.86(134,24)        2.67(133,24)
     2627.         810.    305.         3.89( 99,24)        2.92(110,24)        2.57(149,24)        2.55(103,24)        2.53(359,24)
     2627.        1010.    305.         5.03( 89,24)        3.24( 99,24)        2.67(111,24)        2.57(145,24)        2.54(144,24)
     2627.        1210.    305.         3.99(122,24)        3.42( 88,24)        3.10( 89,24)        2.63(150,24)        2.33(215,24)
     2262.         433.    311.         7.75(150,24)        6.19(137,24)        6.13(126,24)        6.00(147,24)        5.70(152,24)
     2627.        5010.    380.         1.70(115,24)        1.01(114,24)        0.61( 92,24)        0.60(109,24)        0.55(172,24)
     2827.       -1390.    301.         1.68(137,24)        1.48(126,24)        1.47( 87,24)        1.44(150,24)        1.44(168,24)
     2827.       -1190.    302.         1.67(137,24)        1.55(152,24)        1.54(135,24)        1.51(117,24)        1.49(170,24)
     2827.        -990.    302.         1.54(134,24)        1.52(170,24)        1.50(138,24)        1.48( 87,24)        1.48(168,24)
     2827.        -790.    302.         1.71(134,24)        1.66(146,24)        1.58(127,24)        1.54(170,24)        1.54(137,24)
     2827.        -590.    303.         2.07(133,24)        1.93(127,24)        1.87(151,24)        1.86(146,24)        1.79(150,24)
     2827.        -390.    303.         2.51(147,24)        2.46(150,24)        2.35(151,24)        2.34(126,24)        2.03(133,24)
     2827.        -190.    303.         2.87(150,24)        2.80(147,24)        2.68(126,24)        2.47(127,24)        2.26(152,24)
     2827.          10.    303.         2.84(151,24)        2.78(152,24)        2.78( 98,24)        2.57(137,24)        2.50(127,24)
     2827.        5010.    358.         1.53(115,24)        0.93(114,24)        0.74( 92,24)        0.55(109,24)        0.52(  3,24)
     3027.       -2390.    297.         1.40(137,24)        1.37(135,24)        1.19(152,24)        1.17(170,24)        1.14(168,24)
     3027.       -1390.    298.         1.49(137,24)        1.42(170,24)        1.41(168,24)        1.35(127,24)        1.33(117,24)
     3027.        -390.    300.         2.27(150,24)        2.26(147,24)        2.20(126,24)        2.16(151,24)        2.03(125,24)
     3027.         610.    301.         2.00( 99,24)        1.97(110,24)        1.95(100,24)        1.79(278,24)        1.76( 82,24)
     3027.        1610.    302.         2.04(144,24)        1.87(134,24)        1.75( 89,24)        1.60( 70,24)        1.57(106,24)
     3027.        2610.    303.         1.36(115,24)        1.10( 62,24)        1.10( 90,24)        0.97(104,24)        0.95(134,24)
     3027.        3610.    305.         1.98(115,24)        1.40( 62,24)        0.96(116,24)        0.86(114,24)        0.82( 90,24)
     3027.        4610.    333.         1.33(115,24)        0.70(116,24)        0.64( 62,24)        0.60( 97,24)        0.57(108,24)
     3027.        5010.    348.         1.46(115,24)        0.71( 92,24)        0.70(114,24)        0.57(116,24)        0.56( 97,24)
     3027.        5610.    372.         1.50(115,24)        0.85(114,24)        0.68( 92,24)        0.49(172,24)        0.45(109,24)
     3227.        5010.    338.         1.15(115,24)        0.65(116,24)        0.56( 62,24)        0.52( 97,24)        0.51(108,24)
     3227.        5210.    345.         1.22(115,24)        0.61(116,24)        0.55( 97,24)        0.52( 92,24)        0.52(108,24)
     3227.        5610.    362.         1.45(115,24)        0.73(114,24)        0.66( 92,24)        0.50( 97,24)        0.48(172,24)
     3227.        6010.    373.         1.44(115,24)        0.78(114,24)        0.64( 92,24)        0.46(172,24)        0.39(  3,24)

 * - DENOTES PEAK VALUE
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                                        HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES                                             HIGHEST FIVE CONCENTRATIONS
      METERS                                                       VALUE(DAY,ENDING HOUR)

    X          Y        ELEV.          HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
    -5973.    -2390.    798.          0.01(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -5973.    -1390.    793.          0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -5973.     -390.    781.          0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -5973.      610.    852.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -5973.     1610.    731.          0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -5973.     2610.    730.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -5973.     3610.    728.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -5973.     4610.    747.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -5973.     5610.    625.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4973.    -2390.    797.          0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4973.    -1390.    731.          0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4973.     -390.    652.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4973.     1610.    771.          0.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4973.     2610.    792.          0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4973.     3610.    904.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4973.     4610.    858.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4973.     5610.    570.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4773.      410.    646.          0.37(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4773.      610.    669.          0.46(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4773.      810.    666.          0.33(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4773.     1010.    695.          0.24(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4773.     1210.    730.          0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4773.     1210.    730.          0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4573.      410.    633.          0.82(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4573.     1210.    722.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4573.     4810.    853.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4373.       10.    609.          0.38(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4373.      210.    554.          0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4373.      410.    583.          0.55(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4373.     1410.    694.          0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4373.     1610.    756.          0.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4373.     1610.    756.          0.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4373.     4810.    856.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4173.       10.    553.          0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4173.     1610.    787.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -4173.     4810.    828.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.    -2390.    767.          0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.    -1390.    732.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.     -390.    548.          0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.       10.    549.          0.48(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.      610.    722.          0.59(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.     1610.    773.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.     2610.    875.          0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.     3610.    914.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.     4610.    954.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.     4810.    838.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3973.     5610.    686.          0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3773.       10.    549.          0.35(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3773.     1610.    755.          0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
1                                                                                                             POSTZ - PAGE NO.   9


                                        HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                             HIGHEST FIVE CONCENTRATIONS
      METERS                                                       VALUE(DAY,ENDING HOUR)

    X          Y        ELEV.          HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
    -3773.     1810.    792.          0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3773.     2010.    824.          0.13(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3773.     4810.    839.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3573.       10.    549.          0.29(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3573.     2010.    848.          0.13(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3573.     4810.    852.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3373.       10.    549.          0.24(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3373.     2010.    799.          0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
    -3373.     4810.    831.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
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   -3273.      2010.    787.          0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3273.      2210.    841.          0.13(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3273.      2410.    862.          0.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3173.        10.    567.          0.26(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3173.      2410.    841.          0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3173.      4810.    806.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     -2390.    661.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     -1390.    613.          0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.      -390.    609.          0.24(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.        10.    601.          0.34(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.       610.    579.          0.84(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.      1610.    823.          0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.      2410.    784.          0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.      2610.    786.          0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.      3610.    865.          0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.      4610.    770.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.      4810.    747.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.      5610.    642.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2773.        10.    609.          0.53(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2773.      2410.    731.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2773.      4810.    724.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2573.        10.    587.          0.80(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2573.      2410.    732.          0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2573.      4810.    713.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2373.        10.    574.          1.48(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2373.      2410.    726.          0.21(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2373.      4810.    700.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2173.        10.    564.          1.37(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2173.      2410.    675.          0.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2173.      4810.    675.          0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     -2390.    487.          0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     -1390.    522.          0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      -390.    487.          0.36(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      -190.    526.          0.60(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.        10.    549.          0.80(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       210.    549.          0.99(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       410.    547.          1.42(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       610.    479.          0.44(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      1610.    768.          0.36(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      2410.    675.          0.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
1                                                                                                          POSTZ - PAGE NO.  10


                                            HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                            HIGHEST FIVE CONCENTRATIONS
       METERS                                                     VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.          HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------------
   -1973.      2610.    799.          0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      3610.    696.          0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      4610.    628.          0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      4810.    646.          0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      5610.    597.          0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.      -790.    529.          0.27(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.      -590.    497.          0.30(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.       210.    539.          0.63(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.       410.    491.          0.64(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.      2410.    668.          0.24(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.      4810.    609.          0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.     -1190.    433.          0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      -990.    459.          0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      -790.    482.          0.23(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      -590.    487.          0.27(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      -390.    465.          0.28(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      -190.    475.          0.32(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.        10.    505.          0.41(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       210.    495.          0.45(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       410.    482.          0.55(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      2410.    648.          0.26(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      4810.    609.          0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1373.     -1190.    427.          0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1373.      2410.    609.          0.29(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1373.      4810.    575.          0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.     -1190.    423.          0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.      -990.    423.          0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.      -790.    424.          0.21(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.      -590.    425.          0.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.      -390.    425.        0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1173.      2410.    610.        0.30(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1173.      4810.    555.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.     -2390.    407.        0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.     -1390.    411.        0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      -390.    421.        0.29(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      -190.    423.        0.37(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.       610.    387.        1.46(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      1610.    594.        0.96(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      2410.    610.        0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      2610.    609.        0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      3610.    609.        0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      4610.    551.        0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      4810.    549.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      5610.    549.        0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      -190.    420.        0.43(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      2010.    603.        0.48(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      2210.    610.        0.38(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      2410.    610.        0.32(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      4810.    549.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
1                                                                                                        POSTZ - PAGE NO.  11


                                                 HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                     HIGHEST FIVE CONCENTRATIONS
       METERS                                                              VALUE(DAY,ENDING HOUR)

      X            Y         ELEV.            HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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    -573.      -190.    417.        0.58(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -573.      2010.    593.        0.47(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -573.      2210.    609.        0.39(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -573.      2410.    610.        0.33(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -573.      4810.    572.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      -390.    410.        0.64(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      -190.    418.        0.74(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      2010.    564.        0.52(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      2210.    594.        0.41(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      2410.    599.        0.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      4810.    598.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -173.      -390.    402.        0.87(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -173.      2410.    502.        0.42(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -173.      4810.    609.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.     -2390.    366.        0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.     -1390.    366.        0.28(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      -590.    384.        0.75(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      -390.    392.        1.39(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.       610.    293.        1.66(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      1610.    502.        1.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      2410.    428.        0.44(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      2610.    489.        0.36(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      3610.    555.        0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      4610.    605.        0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      4810.    609.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      5610.    487.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     227.      -590.    373.        1.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     227.      2410.    426.        0.45(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     227.      4810.    608.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     427.      -790.    365.        0.77(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     427.      -590.    366.        1.11(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     427.      2410.    424.        0.46(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     427.      4810.    575.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     627.      -790.    360.        0.80(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     627.      2410.    408.        0.47(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     627.      4810.    548.        0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     827.      -790.    355.        0.90(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     827.      2410.    372.        0.44(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     827.      4810.    563.        0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.     -2390.    339.        0.20(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.     -1390.    346.        0.41(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      -790.    350.        0.79(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      -390.    351.        0.98(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.       610.    320.        1.49(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      1610.    398.        2.54(  4,24)*     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      2410.    363.        0.45(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      2610.    365.        0.37(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      3610.    422.        0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      4610.    541.        0.10(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
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                                     HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                       HIGHEST FIVE CONCENTRATIONS
     METERS                                                 VALUE(DAY,ENDING HOUR)

  X          Y      ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-----------------------------------------------------------------------------------------------------------------------
    1027.      4810.    548.      0.09(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1027.      5610.    600.      0.06(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1227.      -790.    344.      0.68(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1227.      2410.    355.      0.46(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1227.      4810.    585.      0.09(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1427.      -990.    337.      0.59(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1427.      -790.    338.      0.65(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1427.      2410.    346.      0.43(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1427.      4810.    588.      0.08(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1627.     -1190.    331.      0.52(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1627.      -990.    332.      0.57(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1627.      1610.    331.      1.17(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1627.      1810.    331.      1.08(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1627.      2010.    332.      0.70(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1627.      2210.    333.      0.51(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1627.      2410.    337.      0.40(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1627.      4810.    532.      0.09(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1627.      5010.    533.      0.08(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1827.     -1390.    325.      0.47(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1827.     -1190.    326.      0.51(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1827.      1610.    321.      0.90(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    1827.      5010.    486.      0.09(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.     -2390.    309.      0.26(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.     -1390.    320.      0.45(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.      -390.    322.      0.97(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.       610.    317.      2.14(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.      1410.    313.      0.93(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2037.      1231.    311.      1.29(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.      1610.    312.      0.77(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.      2610.    327.      0.27(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.      3610.    342.      0.16(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.      4610.    440.      0.11(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.      5010.    469.      0.10(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2027.      5610.    515.      0.07(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2227.     -1590.    313.      0.40(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2227.       610.    311.      1.66(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2227.       810.    310.      1.48(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2227.      1210.    305.      0.93(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2227.      1410.    305.      0.70(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2227.      5010.    438.      0.10(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2427.     -1590.    309.      0.39(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2427.       410.    307.      1.15(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2427.       610.    304.      1.11(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2427.       810.    305.      1.02(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2427.      1210.    305.      0.75(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2427.      5010.    426.      0.09(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.     -1590.    304.      0.38(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.     -1390.    304.      0.42(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.      -390.    305.      0.65(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
1                                                                                    POSTZ - PAGE NO.  13


                                     HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                       HIGHEST FIVE CONCENTRATIONS
     METERS                                                 VALUE(DAY,ENDING HOUR)

  X          Y      ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-----------------------------------------------------------------------------------------------------------------------
    2627.      -190.    304.      0.74(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.        10.    305.      0.82(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.       210.    305.      0.89(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.       410.    305.      0.88(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.       610.    305.      0.83(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.       810.    305.      0.77(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.      1010.    305.      0.69(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2627.      1210.    305.      0.59(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
    2262.       433.    311.      1.52(  4,24)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)      0.00(  0,  0)
  2627.     5010.   380.      0.09(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  2827.    -1390.   301.      0.41(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  2827.    -1190.   302.      0.44(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  2827.     -990.   302.      0.47(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  2827.     -790.   302.      0.49(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  2827.     -590.   303.      0.53(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  2827.     -390.   303.      0.59(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  2827.     -190.   303.      0.66(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  2827.       10.   303.      0.69(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  2827.     5010.   358.      0.09(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.    -2390.   297.      0.27(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.    -1390.   298.      0.38(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.     -390.   300.      0.53(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.      610.   301.      0.56(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.     1610.   302.      0.36(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.     2610.   303.      0.18(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.     3610.   305.      0.13(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.     4610.   333.      0.09(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.     5010.   348.      0.09(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3027.     5610.   372.      0.08(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3227.     5010.   338.      0.08(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3227.     5210.   345.      0.08(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3227.     5610.   362.      0.08(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
  3227.     6010.   373.      0.07(  4,24)     0.00(  0, 0)*    0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)

* - DENOTES PEAK VALUE
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                   POSTZ               (DATED 86224)
1                                                                                                         POSTZ - PAGE NO.   1



                                         POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                  POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - PM10 - 04/17/92 - MPV
                  SHORTZ RUN TITLE:  **********************************************************************************

                  ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                         0
                  ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                   0
                  ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                     0
                  ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)          0
                  ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                    0

             1-HOUR AVERAGE ANALYSIS:
                  ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                  ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
                  ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

             3-HOUR AVERAGE ANALYSIS:
                  ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                  ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

             8-HOUR AVERAGE ANALYSIS:
                  ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

             24-HOUR AVERAGE ANALYSIS:
                  ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
                  ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

             ANNUAL AVERAGE ANALYSIS:
                  ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
                  ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

             USER-SPECIFIED AVERAGING TIME ANALYSIS
                  ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                  ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                  ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                            0
                  ISW(25) CALMS POLICY (1=YES,0=NO)                                                0


                  JULIAN DAY FOR START OF ANALYSIS                                                 1
                  YEAR FOR START OF ANALYSIS                                                      91
                  JULIAN DAY FOR END OF ANALYSIS                                                   5
                  YEAR FOR END OF ANALYSIS                                                        92
1                                                                                                         POSTZ - PAGE NO.   2



                                             HIGH FIVE TABLE FOR    24 HOUR AVERAGES

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
       METERS                                                   VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.         HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
----------------------------------------------------------------------------------------------------------------------------------
     2127.       1210.    308.        9.31(134,24)        6.73(120,24)        6.19(106,24)        5.78( 62,24)        5.32(148,24)
     2227.       1210.    305.        8.55(134,24)        7.17(120,24)        6.58(106,24)        5.79(122,24)        5.50(148,24)
     2327.       1210.    305.        6.24( 70,24)        5.79(106,24)        5.47(134,24)        5.22(144,24)        5.15( 89,24)
     2427.       1210.    305.        7.23( 89,24)        4.37( 88,24)        4.02(104,24)        3.84(106,24)        3.83(135,24)
     2527.       1210.    305.        3.80( 89,24)        3.05(122,24)        3.00( 88,24)        2.91(149,24)        2.84(134,24)
     2627.       1210.    305.        3.99(122,24)        3.42( 88,24)        3.10( 89,24)        2.63(150,24)        2.33(215,24)
     2037.       1231.    311.       17.21(115,24)*       7.81( 62,24)*       7.38(114,24)        6.90(134,24)        6.79(116,24)
     2027.       1310.    313.       10.95(115,24)        5.72( 62,24)        4.69(114,24)        4.60( 90,24)        4.02(104,24)
     2127.       1310.    307.        9.07(115,24)        5.61(134,24)        4.68( 62,24)        3.87( 50,24)        3.86( 91,24)
     2227.       1310.    305.        6.86(134,24)        4.12( 62,24)        4.07(106,24)        4.02(120,24)        3.97(115,24)
     2327.       1310.    305.        6.75(134,24)        5.68(120,24)        5.11(106,24)        4.84(148,24)        4.25(122,24)
     2427.       1310.    305.        5.45(134,24)        3.44(120,24)        3.36( 89,24)        3.21(106,24)        3.18( 63,24)
     2527.       1310.    305.        4.18( 70,24)        4.03(106,24)        3.63(144,24)        3.60(134,24)        3.50( 89,24)
     2627.       1310.    305.        5.14( 89,24)        3.39( 88,24)        3.21(106,24)        3.21(104,24)        2.79(140,24)
     2027.       1410.    313.       11.30(115,24)        5.50( 62,24)        4.90(114,24)        4.66(116,24)        4.63( 92,24)
```

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      2127.       1410.    308.        9.81(115,24)        5.07( 62,24)        4.06( 90,24)        3.48(114,24)        3.28(116,24)
      2227.       1410.    305.        4.66(115,24)        4.36(134,24)        3.47( 62,24)        3.26(103,24)        3.23( 91,24)
      2327.       1410.    305.        5.52(134,24)        3.41(115,24)        3.18( 91,24)        3.17( 62,24)        2.93( 50,24)
      2427.       1410.    305.        5.54(134,24)        4.10(120,24)        3.99(106,24)        3.49(148,24)        3.07(122,24)
      2527.       1410.    305.        4.56(134,24)        4.07(120,24)        3.24(106,24)        3.05(148,24)        2.98(122,24)
      2627.       1410.    305.        3.59(134,24)        2.67(144,24)        2.59( 89,24)        2.54( 63,24)        2.32(106,24)
      2327.        410.    310.        6.48(150,24)        6.06(137,24)        5.44(126,24)        5.39(127,24)        5.22(147,24)
      2427.        410.    307.        4.85( 98,24)        4.57(150,24)        4.53(127,24)        4.43(151,24)        4.26(126,24)
      2527.        410.    305.        3.96( 98,24)        3.71(152,24)        3.65(127,24)        3.53(151,24)        3.21(119,24)
      2627.        410.    305.        3.62(119,24)        3.34(123,24)        3.14(133,24)        3.08(132,24)        2.78(136,24)
      2262.        433.    311.        7.75(150,24)        6.19(137,24)        6.13(126,24)        6.00(147,24)        5.70(152,24)
      2262.        510.    312.        6.98(137,24)        6.32(150,24)        6.20(127,24)        6.14(126,24)        5.84(152,24)
      2327.        510.    309.        6.11( 98,24)        5.52(127,24)        5.43(150,24)        5.41(151,24)        5.26(126,24)
      2427.        510.    304.        4.51( 98,24)        4.48(152,24)        4.15(151,24)        4.04(123,24)        4.00(127,24)
      2527.        510.    304.        4.02(133,24)        3.96(119,24)        3.93(123,24)        3.37(132,24)        3.14( 92,24)
      2627.        510.    305.        3.63(133,24)        3.18(138,24)        3.12(123,24)        2.92( 70,24)        2.82(109,24)
      2227.        610.    311.        7.73(127,24)        7.15( 98,24)        7.14(151,24)        6.73(150,24)        6.51(137,24)
      2327.        610.    308.        5.40(119,24)        5.36(152,24)        5.18(123,24)        5.15( 98,24)        5.08(127,24)
      2427.        610.    304.        4.66(133,24)        4.53(123,24)        4.20(119,24)        3.87(132,24)        3.77(134,24)
      2527.        610.    305.        3.65(123,24)        3.61(133,24)        3.41(109,24)        3.32(138,24)        3.18( 70,24)
      2627.        610.    305.        3.78(123,24)        3.04( 70,24)        2.89(138,24)        2.86(134,24)        2.67(133,24)
      2227.        710.    311.        6.96(119,24)        6.57(152,24)        6.51(133,24)        6.02(134,24)        6.01(150,24)
      2327.        710.    308.        5.46(133,24)        4.83(123,24)        4.81(109,24)        4.38(149,24)        4.37(134,24)
      2427.        710.    306.        4.42(123,24)        3.78(134,24)        3.57(138,24)        3.56(109,24)        3.55(133,24)
      2527.        710.    304.        4.21(123,24)        3.61(134,24)        3.19( 99,24)        2.95( 70,24)        2.86(133,24)
      2627.        710.    305.        3.03( 99,24)        3.00(123,24)        2.85( 70,24)        2.78( 89,24)        2.73(134,24)
      2227.        810.    310.        5.81(149,24)        5.61(133,24)        5.51(109,24)        5.50(123,24)        5.41(134,24)
      2327.        810.    307.        5.76(123,24)        4.80(134,24)        4.76(133,24)        4.20( 99,24)        4.18( 70,24)
      2427.        810.    305.        4.06( 99,24)        4.05(134,24)        3.88(123,24)        3.49(110,24)        3.49(149,24)
      2527.        810.    304.        3.95( 99,24)        3.35(149,24)        3.34(110,24)        3.00( 82,24)        2.76(103,24)
      2627.        810.    305.        3.89( 99,24)        2.92(110,24)        2.57(149,24)        2.55(103,24)        2.53(359,24)

 * - DENOTES PEAK VALUE
1                                                                                                           POSTZ - PAGE NO.   3



                                               HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

  RECEPTOR COORDINATES                                                 HIGHEST FIVE CONCENTRATIONS
        METERS                                                           VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.         HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------------
      2127.       1210.    308.        1.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2227.       1210.    305.        0.93(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2327.       1210.    305.        0.82(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2427.       1210.    305.        0.75(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2527.       1210.    305.        0.64(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2627.       1210.    305.        0.59(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2037.       1231.    311.        1.29(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2027.       1310.    313.        1.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2127.       1310.    307.        0.89(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2227.       1310.    305.        0.81(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2327.       1310.    305.        0.75(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2427.       1310.    305.        0.66(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2527.       1310.    305.        0.62(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2627.       1310.    305.        0.58(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2027.       1410.    313.        0.93(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2127.       1410.    308.        0.81(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2227.       1410.    305.        0.70(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2327.       1410.    305.        0.67(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2427.       1410.    305.        0.63(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2527.       1410.    305.        0.57(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2627.       1410.    305.        0.52(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2327.        410.    310.        1.35(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2427.        410.    307.        1.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2527.        410.    305.        1.00(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2627.        410.    305.        0.88(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2262.        433.    311.        1.52(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2262.        510.    312.        1.53(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2327.        510.    309.        1.35(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2427.        510.    304.        1.13(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2527.        510.    304.        0.97(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2627.        510.    305.        0.85(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2227.        610.    311.        1.66(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2327.        610.    308.        1.37(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2427.        610.    304.        1.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2527.        610.    305.        0.94(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
      2627.        610.    305.        0.83(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2227.        710.    311.        1.67(  4,24)*      0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2327.        710.    308.        1.27(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2427.        710.    306.        1.06(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2527.        710.    304.        0.91(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2627.        710.    305.        0.81(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2227.        810.    310.        1.48(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2327.        810.    307.        1.22(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2427.        810.    305.        1.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2527.        810.    304.        0.87(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2627.        810.    305.        0.77(  4,24)       0.00(  0, 0)*      0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)

* - DENOTES PEAK VALUE
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                POSTZ                   (DATED 86224)
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                                                                                          POSTZ - PAGE NO.    1


                                            POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

               POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - PM10 - 04/17/92 - MPV
               SHORTZ RUN TITLE:  ********************************************************************************

               ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                      0
               ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                0
               ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                  0
               ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)       0
               ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                 0

          1-HOUR AVERAGE ANALYSIS:
               ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                     0
               ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                     0
               ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                 0

          3-HOUR AVERAGE ANALYSIS:
               ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                     0
               ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

          8-HOUR AVERAGE ANALYSIS:
               ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

          24-HOUR AVERAGE ANALYSIS:
               ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    1
               ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

          ANNUAL AVERAGE ANALYSIS:
               ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    1
               ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

          USER-SPECIFIED AVERAGING TIME ANALYSIS
               ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

               ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                         0
               ISW(25) CALMS POLICY (1=YES,0=NO)                                             0


               JULIAN DAY FOR START OF ANALYSIS                                              1
               YEAR FOR START OF ANALYSIS                                                   91
               JULIAN DAY FOR END OF ANALYSIS                                                5
               YEAR FOR END OF ANALYSIS                                                     92
1
                                                                                          POSTZ - PAGE NO.    2


                                               HIGH FIVE TABLE FOR    24 HOUR AVERAGES

  RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
        METERS                                                    VALUE(DAY,ENDING HOUR)

     X            Y       ELEV.          HIGHEST             2ND HIGH             3RD HIGH             4TH HIGH             5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------------
   -5973.      -2390.     798.        0.15(  1,24)         0.14( 97,24)         0.14(114,24)         0.13(120,24)         0.12(355,24)
   -5973.      -1390.     793.        0.32( 51,24)         0.25(365,24)         0.23(114,24)         0.22(103,24)         0.21( 77,24)
   -5973.       -390.     781.        0.71(  7,24)         0.59( 77,24)         0.38( 68,24)         0.29( 72,24)         0.29(124,24)
   -5973.        610.     852.        0.77( 77,24)         0.62( 74,24)         0.54( 70,24)         0.51(111,24)         0.43(144,24)
   -5973.       1610.     731.        0.88( 70,24)         0.67( 74,24)         0.60( 96,24)         0.53( 77,24)         0.52(135,24)
   -5973.       2610.     730.        0.66( 74,24)         0.53(136,24)         0.48( 94,24)         0.46( 96,24)         0.45(132,24)
   -5973.       3610.     728.        0.40( 98,24)         0.36( 95,24)         0.34( 77,24)         0.34( 94,24)         0.33( 96,24)
   -5973.       4610.     747.        0.41( 70,24)         0.39( 96,24)         0.36( 74,24)         0.35(151,24)         0.31(105,24)
   -5973.       5610.     625.        0.51( 96,24)         0.42( 74,24)         0.39(218,24)         0.33(147,24)         0.31(134,24)
   -4973.      -2390.     797.        0.32(114,24)         0.24(115,24)         0.17(  1,24)         0.15(117,24)         0.15(351,24)
   -4973.      -1390.     731.        0.54(350,24)         0.51( 74,24)         0.37( 55,24)         0.34(120,24)         0.33(351,24)
   -4973.       -390.     652.        0.95(365,24)         0.75(106,24)         0.71(120,24)         0.70( 77,24)         0.61(  3,24)
   -4973.       1610.     771.        0.98(123,24)         0.88( 77,24)         0.83( 95,24)         0.82(107,24)         0.82(100,24)
   -4973.       2610.     792.        0.60( 74,24)         0.55(112,24)         0.48(135,24)         0.48( 88,24)         0.45(106,24)
   -4973.       3610.     904.        0.44(136,24)         0.42(105,24)         0.40(139,24)         0.39(132,24)         0.38( 89,24)
   -4973.      4610.    858.       0.42( 96,24)      0.33( 89,24)      0.32(105,24)      0.30(100,24)      0.30(112,24)
   -4973.      5610.    570.       0.45( 96,24)      0.39(218,24)      0.35( 74,24)      0.35(132,24)      0.34(134,24)
   -4773.       410.    646.       5.04( 77,24)      4.21( 88,24)      3.93(106,24)      3.70( 74,24)      3.29( 95,24)
   -4773.       610.    669.       4.74(105,24)      4.72( 96,24)      3.91( 70,24)      3.86( 89,24)      3.52(151,24)
   -4773.       810.    666.       3.18(132,24)      2.82(133,24)      2.82(112,24)      2.19(150,24)      2.14( 74,24)
   -4773.      1010.    695.       2.32(132,24)      2.28( 74,24)      1.86( 94,24)      1.83(136,24)      1.82(133,24)
   -4773.      1210.    730.       1.46(123,24)      1.31( 77,24)      1.30(147,24)      1.18( 95,24)      1.16(107,24)
   -4773.      1210.    730.       1.46(123,24)      1.31( 77,24)      1.30(147,24)      1.18( 95,24)      1.16(107,24)
   -4573.       410.    633.       8.26( 94,24)      6.75( 88,24)      6.56(113,24)      6.56( 72,24)      5.99(105,24)
   -4573.      1210.    722.       1.40( 39,24)      1.30(148,24)      1.19( 77,24)      1.11( 92,24)      1.11( 45,24)
   -4573.      4810.    853.       0.41(134,24)      0.36( 96,24)      0.36(132,24)      0.32(135,24)      0.32( 89,24)
   -4373.        10.    609.       8.07(  1,24)      6.24(365,24)      4.06(350,24)      4.05(107,24)      4.02(357,24)
   -4373.       210.    554.       2.07( 77,24)      1.59(354,24)      1.27(107,24)      1.21( 72,24)      1.16(361,24)
   -4373.       410.    583.       5.76( 67,24)      5.54( 69,24)      4.71( 66,24)      4.52( 75,24)      3.85(112,24)
   -4373.      1410.    694.       1.18( 92,24)      1.11( 76,24)      1.04( 38,24)      1.03(104,24)      0.98( 45,24)
   -4373.      1610.    756.       1.02( 92,24)      0.99( 76,24)      0.98( 70,24)      0.93( 89,24)      0.92(135,24)
   -4373.      1610.    756.       1.02( 92,24)      0.99( 76,24)      0.98( 70,24)      0.93( 89,24)      0.92(135,24)
   -4373.      4810.    856.       0.42(132,24)      0.34( 96,24)      0.32(134,24)      0.31(112,24)      0.29(135,24)
   -4173.        10.    553.       2.05(  1,24)      1.77(347,24)      1.64(230,24)      1.35(342,24)      1.25( 77,24)
   -4173.      1610.    787.       1.32( 74,24)      1.23( 70,24)      0.99( 63,24)      0.98(144,24)      0.95( 64,24)
   -4173.      4810.    828.       0.48(132,24)      0.43(133,24)      0.41(134,24)      0.32( 96,24)      0.32(150,24)
   -3973.     -2390.    767.       0.45( 23,24)      0.34( 74,24)      0.32( 73,24)      0.28(114,24)      0.28( 78,24)
   -3973.     -1390.    732.       0.74(114,24)      0.64( 22,24)      0.64(  1,24)      0.58( 23,24)      0.54( 55,24)
   -3973.      -390.    548.       1.50(249,24)      1.16( 27,24)      1.09( 26,24)      1.05(157,24)      0.98( 19,24)
   -3973.        10.    549.       4.11( 20,24)      3.52( 12,24)      3.26( 16,24)      2.96( 25,24)      2.93(  2,24)
   -3973.       610.    722.       5.23( 37,24)      5.04( 62,24)      4.37( 29,24)      3.93( 28,24)      3.46( 41,24)
   -3973.      1610.    773.       1.20( 41,24)      1.17(134,24)      1.16( 74,24)      1.14( 84,24)      1.01(128,24)
   -3973.      2610.    875.       0.77( 88,24)      0.64(139,24)      0.62(128,24)      0.58( 94,24)      0.56(136,24)
   -3973.      3610.    914.       0.49(105,24)      0.48( 96,24)      0.47( 89,24)      0.44(148,24)      0.43(134,24)
   -3973.      4610.    954.       0.53(132,24)      0.34(134,24)      0.33(133,24)      0.31(136,24)      0.29(112,24)
   -3973.      4810.    838.       0.53(132,24)      0.42(133,24)      0.41(134,24)      0.35(150,24)      0.32(136,24)
   -3973.      5610.    686.       0.52( 74,24)      0.42(133,24)      0.41(132,24)      0.29(147,24)      0.29(134,24)
   -3773.        10.    549.       2.19(  4,24)      1.66(327,24)      1.63( 34,24)      1.61(336,24)      1.51(156,24)
   -3773.      1610.    755.       1.09( 74,24)      0.94(112,24)      0.86(109,24)      0.83( 29,24)      0.83(133,24)
                                                                                           POSTZ - PAGE NO.   3
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                                      HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
       METERS                                                 VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.         HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
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   -3773.      1810.    792.       0.94(132,24)      0.92(109,24)      0.78( 68,24)      0.73( 74,24)      0.73(135,24)
   -3773.      2010.    824.       0.89(136,24)      0.86(132,24)      0.76( 88,24)      0.72(126,24)      0.71(109,24)
   -3773.      4810.    839.       0.56(132,24)      0.42(134,24)      0.42(133,24)      0.37(150,24)      0.35(136,24)
   -3573.        10.    549.       1.88(107,24)      1.68(  7,24)      1.29( 35,24)      1.28(336,24)      1.03(327,24)
   -3573.      2010.    848.       0.91( 88,24)      0.76( 77,24)      0.75(123,24)      0.72(147,24)      0.70(144,24)
   -3573.      4810.    852.       0.55(132,24)      0.47(134,24)      0.40(150,24)      0.36(136,24)      0.35(133,24)
   -3373.        10.    549.       1.04(107,24)      0.94(103,24)      0.90( 77,24)      0.89(336,24)      0.89(146,24)
   -3373.      2010.    799.       1.14( 77,24)      1.03( 88,24)      0.97( 95,24)      0.96(123,24)      0.88(148,24)
   -3373.      4810.    831.       0.51(132,24)      0.49(134,24)      0.47(133,24)      0.41(150,24)      0.33(147,24)
   -3273.      2010.    787.       1.18(148,24)      1.15( 77,24)      1.09(122,24)      1.06( 88,24)      0.94(149,24)
   -3273.      2210.    841.       1.07(148,24)      0.91( 96,24)      0.90( 98,24)      0.89( 88,24)      0.88(122,24)
   -3273.      2410.    862.       0.84(148,24)      0.84(139,24)      0.83(146,24)      0.83(105,24)      0.78(122,24)
   -3173.        10.    567.       2.60( 96,24)      2.10(102,24)      1.97( 46,24)      1.68(131,24)      1.65(  9,24)
   -3173.      2410.    841.       1.29( 96,24)      0.96(122,24)      0.93(146,24)      0.92(105,24)      0.86( 70,24)
   -3173.      4810.    806.       0.47(133,24)      0.46(132,24)      0.42(134,24)      0.37(150,24)      0.36(147,24)
   -2973.     -2390.    661.       0.69(106,24)      0.61(352,24)      0.56(  3,24)      0.37( 74,24)      0.37(  1,24)
   -2973.     -1390.    613.       0.96( 40,24)      0.86(146,24)      0.84( 68,24)      0.83(114,24)      0.74(352,24)
   -2973.      -390.    609.       2.09( 74,24)      2.04(  3,24)      1.58( 61,24)      1.51(350,24)      1.46(355,24)
   -2973.        10.    601.       2.95(365,24)      2.49(107,24)      2.17(106,24)      2.16(131,24)      2.09(101,24)
   -2973.       610.    579.       6.80( 96,24)      6.59(105,24)      5.46(122,24)      5.29( 94,24)      5.04( 88,24)
   -2973.      1610.    823.       1.31( 77,24)      1.17(148,24)      1.13(106,24)      1.09(149,24)      1.05( 92,24)
   -2973.      2410.    784.       1.50( 70,24)      1.46( 96,24)      1.31(122,24)      1.29(151,24)      1.06(105,24)
   -2973.      2610.    786.       1.54( 74,24)      1.43( 70,24)      1.19( 96,24)      1.14(122,24)      1.02(151,24)
   -2973.      3610.    865.       0.91(132,24)      0.68(150,24)      0.59(136,24)      0.50(133,24)      0.49( 89,24)
   -2973.      4610.    770.       0.59( 74,24)      0.49(133,24)      0.47(132,24)      0.42(134,24)      0.39(147,24)
   -2973.      4810.    747.       0.47( 74,24)      0.45(133,24)      0.42(132,24)      0.38(134,24)      0.38(123,24)
   -2973.      5610.    642.       0.38(132,24)      0.34(123,24)      0.30(147,24)      0.30( 76,24)      0.27(133,24)
   -2773.        10.    609.       6.50(  1,24)      6.26(114,24)      4.88(  3,24)      4.71(  1,24)      4.45(352,24)
   -2773.      2410.    731.       1.95( 70,24)      1.67( 74,24)      1.48( 96,24)      1.28( 89,24)      1.23(122,24)
   -2773.      4810.    724.       0.46(123,24)      0.44(133,24)      0.41(132,24)      0.39( 74,24)      0.37(134,24)
   -2573.        10.    587.       8.04( 27,24)      7.38(  2,24)      6.77( 18,24)      6.37(351,24)      6.30( 69,24)
   -2573.      2410.    732.       2.33( 74,24)      1.56( 70,24)      1.41( 96,24)      1.37(133,24)      1.30(134,24)
   -2573.      4810.    713.       0.46(133,24)      0.44(123,24)      0.43(132,24)      0.38( 74,24)      0.36(134,24)
   -2373.        10.    574.      11.28(130,24)      8.75( 15,24)      8.55( 22,24)      8.51(152,24)      7.78( 27,24)
   -2373.      2410.    726.       1.96( 74,24)      1.52(133,24)      1.39(134,24)      1.37(132,24)      1.31( 96,24)
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     -2373.      4810.    700.       0.47(132,24)      0.43(123,24)      0.43(133,24)      0.41( 74,24)      0.36(147,24)
     -2173.        10.    564.       9.09(146,24)      8.25( 31,24)      7.91(  6,24)      7.82( 16,24)      7.45(130,24)
     -2173.      2410.    675.       1.74( 74,24)      1.69(132,24)      1.57(134,24)      1.50(120,24)      1.49(133,24)
     -2173.      4810.    675.       0.48(132,24)      0.42(123,24)      0.42( 45,24)      0.41( 74,24)      0.38(147,24)
     -1973.     -2390.    487.       1.03(355,24)      0.93(114,24)      0.80(365,24)      0.79(362,24)      0.71(  1,24)
     -1973.     -1390.    522.       0.99( 85,24)      0.95(120,24)      0.92(  3,24)      0.78(  9,24)      0.78(351,24)
     -1973.      -390.    487.       1.98(130,24)      1.79( 31,24)      1.76(  3,24)      1.75( 25,24)      1.73( 15,24)
     -1973.      -190.    526.       3.27( 16,24)      3.26( 20,24)      3.20( 68,24)      2.72(128,24)      2.62(  3,24)
     -1973.        10.    549.       9.12(119,24)      5.30(120,24)      4.79(132,24)      3.56(123,24)      3.22(114,24)
     -1973.       210.    549.      11.42(142,24)      8.87(131,24)      5.58(110,24)      5.35(104,24)      5.22(133,24)
     -1973.       410.    547.      14.58(145,24)     13.70(100,24)     12.79(144,24)     11.49(118,24)     10.63(111,24)
     -1973.       610.    479.       2.85( 54,24)      2.68(121,24)      2.59( 42,24)      2.52(215,24)      2.34(139,24)
     -1973.      1610.    768.       3.70( 96,24)      3.70( 70,24)      3.12(122,24)      2.94(139,24)      2.79( 74,24)
     -1973.      2410.    675.       2.02(132,24)      1.86( 74,24)      1.49(123,24)      1.47(133,24)      1.40(147,24)
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                                           HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                             HIGHEST FIVE CONCENTRATIONS
        METERS                                                      VALUE(DAY,ENDING HOUR)

      X           Y       ELEV.        HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
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     -1973.      2610.    799.       1.68(132,24)      1.21(133,24)      1.20(136,24)      1.15(134,24)      1.11(150,24)
     -1973.      3610.    696.       0.90(134,24)      0.81(133,24)      0.75(120,24)      0.74(123,24)      0.61( 74,24)
     -1973.      4610.    628.       0.51(132,24)      0.50( 74,24)      0.48( 45,24)      0.44(120,24)      0.44(123,24)
     -1973.      4810.    646.       0.47(132,24)      0.43( 45,24)      0.41( 76,24)      0.41(123,24)      0.38(147,24)
     -1973.      5610.    597.       0.54(107,24)      0.38( 96,24)      0.34(290,24)      0.34( 45,24)      0.33(147,24)
     -1773.      -790.    529.       1.70(146,24)      1.69(143,24)      1.60(130,24)      1.43(153,24)      1.35(149,24)
     -1773.      -590.    497.       2.00(  3,24)      1.59( 68,24)      1.47( 31,24)      1.44( 20,24)      1.41(143,24)
     -1773.       210.    539.       5.00(131,24)      4.91(142,24)      4.55( 99,24)      4.26(110,24)      3.83(104,24)
     -1773.       410.    491.       5.04(100,24)      4.05(118,24)      3.89(144,24)      3.32( 77,24)      3.15(104,24)
     -1773.      2410.    668.       1.88(132,24)      1.78(123,24)      1.71(147,24)      1.68( 74,24)      1.41(133,24)
     -1773.      4810.    609.       0.56(107,24)      0.52(114,24)      0.47( 45,24)      0.45(120,24)      0.45(132,24)
     -1573.     -1190.    433.       1.34(114,24)      1.17(352,24)      1.16(355,24)      1.03(351,24)      1.01(  3,24)
     -1573.      -990.    459.       1.36(351,24)      1.32(  3,24)      1.27(352,24)      1.10( 96,24)      1.10(355,24)
     -1573.      -790.    482.       1.60(  3,24)      1.30( 96,24)      1.28(351,24)      1.14(363,24)      1.05(352,24)
     -1573.      -590.    487.       1.80(149,24)      1.65(  3,24)      1.40(  7,24)      1.39(139,24)      1.22(363,24)
     -1573.      -390.    465.       1.87(  3,24)      1.41( 74,24)      1.40(352,24)      1.30(363,24)      1.28(355,24)
     -1573.      -190.    475.       2.70(  3,24)      2.11(354,24)      2.05( 93,24)      1.81( 74,24)      1.77( 77,24)
     -1573.        10.    505.       2.48(141,24)      2.19(142,24)      2.19(131,24)      2.07(107,24)      1.99( 74,24)
     -1573.       210.    495.       3.18(352,24)      2.58(  3,24)      2.39( 77,24)      2.30(131,24)      2.29(114,24)
     -1573.       410.    482.       3.57( 77,24)      3.40(100,24)      3.12( 74,24)      3.01(118,24)      2.90(  3,24)
     -1573.      2410.    648.       1.87(123,24)      1.74( 96,24)      1.72(147,24)      1.50(132,24)      1.48(134,24)
     -1573.      4810.    609.       0.70(107,24)      0.50( 45,24)      0.49( 96,24)      0.44( 76,24)      0.43( 74,24)
     -1373.     -1190.    427.       1.32(352,24)      1.32( 93,24)      1.25(362,24)      1.25(363,24)      1.18(355,24)
     -1373.      2410.    609.       2.66( 96,24)      2.45(107,24)      2.04( 74,24)      1.57(123,24)      1.50(147,24)
     -1373.      4810.    575.       0.82(107,24)      0.46( 96,24)      0.46( 45,24)      0.42(133,24)      0.40(290,24)
     -1173.     -1190.    423.       2.23(352,24)      1.50(106,24)      1.40(114,24)      1.38(364,24)      1.25(363,24)
     -1173.      -990.    423.       1.61(363,24)      1.51(106,24)      1.50(352,24)      1.46(362,24)      1.45(114,24)
     -1173.      -790.    424.       2.02( 85,24)      1.97(363,24)      1.58(120,24)      1.50(  3,24)      1.46(106,24)
     -1173.      -590.    425.       2.16(363,24)      1.95( 96,24)      1.58(  3,24)      1.34(352,24)      1.28(364,24)
     -1173.      -390.    425.       2.33(363,24)      2.16(  7,24)      1.84(  3,24)      1.69(107,24)      1.50(352,24)
     -1173.      2410.    610.       2.35(107,24)      2.07( 96,24)      1.78(133,24)      1.60( 84,24)      1.53( 45,24)
     -1173.      4810.    555.       0.72(123,24)      0.70(107,24)      0.44(133,24)      0.43( 94,24)      0.41( 38,24)
      -973.     -2390.    407.       1.27(352,24)      1.16(  3,24)      1.07(351,24)      0.99(  1,24)      0.88(365,24)
      -973.     -1390.    411.       1.76(  3,24)      1.40(117,24)      1.32(355,24)      1.28(365,24)      1.27(114,24)
      -973.      -390.    421.       3.53(149,24)      2.37(139,24)      2.26(124,24)      2.03(  3,24)      1.84(364,24)
      -973.      -190.    423.       3.27( 77,24)      3.15(107,24)      3.12( 98,24)      2.87(124,24)      2.69( 93,24)
      -973.       610.    387.      11.29(351,24)     10.97(355,24)     10.84(124,24)      8.31(  3,24)      8.16(113,24)
      -973.      1610.    594.       7.42(107,24)      6.21( 62,24)      6.15( 63,24)      5.36(104,24)      5.22( 45,24)
      -973.      2410.    610.       2.26(107,24)      1.82( 96,24)      1.76( 92,24)      1.67(120,24)      1.59( 63,24)
      -973.      2610.    609.       1.81(107,24)      1.79( 96,24)      1.45(133,24)      1.42(134,24)      1.37( 92,24)
      -973.      3610.    609.       0.84(107,24)      0.84( 74,24)      0.80( 63,24)      0.78(133,24)      0.77( 62,24)
      -973.      4610.    551.       0.82(123,24)      0.77(107,24)      0.51( 82,24)      0.47( 94,24)      0.45( 63,24)
      -973.      4810.    549.       0.76(123,24)      0.74(107,24)      0.49( 82,24)      0.41(290,24)      0.40( 94,24)
      -973.      5610.    549.       0.55(107,24)      0.53(123,24)      0.37( 78,24)      0.36(290,24)      0.33( 63,24)
      -773.      -190.    420.       4.46(124,24)      4.44( 77,24)      3.57( 98,24)      3.52( 97,24)      3.10(352,24)
      -773.      2010.    603.       3.36( 63,24)      2.85( 41,24)      2.77(114,24)      2.70( 84,24)      2.66(107,24)
      -773.      2210.    610.       2.54( 63,24)      2.43( 96,24)      2.26(114,24)      2.25( 41,24)      2.13( 62,24)
      -773.      2410.    610.       2.38( 96,24)      1.86( 41,24)      1.67( 63,24)      1.65( 84,24)      1.63(114,24)
      -773.      4810.    549.       0.88(107,24)      0.62(123,24)      0.52( 78,24)      0.47( 82,24)      0.46( 63,24)
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                                           HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)
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RECEPTOR COORDINATES                                HIGHEST FIVE CONCENTRATIONS
     METERS                                           VALUE(DAY,ENDING HOUR)

  X          Y       ELEV.        HIGHEST         2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------
    -573.     -190.    417.      7.11(124,24)      5.76(  7,24)      4.60( 97,24)      4.53(107,24)      4.34(352,24)
    -573.     2010.    593.      3.27(114,24)      3.04( 62,24)      2.87( 96,24)      2.45( 63,24)      2.29(140,24)
    -573.     2210.    609.      3.30(114,24)      2.56( 96,24)      2.08( 74,24)      2.05( 62,24)      2.03(134,24)
    -573.     2410.    610.      3.20(114,24)      2.15( 96,24)      1.93(120,24)      1.90( 74,24)      1.88( 62,24)
    -573.     4810.    572.      0.77(107,24)      0.52( 78,24)      0.47( 63,24)      0.42(290,24)      0.40( 94,24)
    -373.     -390.    410.     12.59(352,24)      7.22(114,24)      5.63( 68,24)      5.08(355,24)      4.79(115,24)
    -373.     -190.    418.     10.42( 96,24)      6.89(352,24)      5.15(  3,24)      4.77(124,24)      4.77( 97,24)
    -373.     2010.    564.      3.96( 62,24)      3.87(123,24)      2.98(107,24)      2.85( 96,24)      2.65( 74,24)
    -373.     2210.    594.      2.50( 62,24)      2.46( 96,24)      2.40(107,24)      2.30( 74,24)      2.14( 63,24)
    -373.     2410.    599.      2.63(107,24)      2.34( 96,24)      2.17( 74,24)      1.91(133,24)      1.74( 62,24)
    -373.     4810.    598.      0.58(114,24)      0.53( 78,24)      0.48(107,24)      0.46( 62,24)      0.42( 63,24)
    -173.     -390.    402.     13.03(  3,24)     10.32(351,24)      8.97(352,24)      7.40(350,24)      6.42(355,24)
    -173.     2410.    502.      3.25(123,24)      3.14(140,24)      2.77( 96,24)      2.50( 62,24)      2.45( 74,24)
    -173.     4810.    609.      0.85(114,24)      0.46( 45,24)      0.44( 39,24)      0.41(290,24)      0.41( 41,24)
      27.    -2390.    366.      1.17(  3,24)      1.02( 97,24)      0.96(363,24)      0.95(124,24)      0.87(364,24)
      27.    -1390.    366.      2.87( 97,24)      2.13(124,24)      2.02(  3,24)      1.88(352,24)      1.80(364,24)
      27.     -590.    384.      6.92( 23,24)      6.22( 97,24)      6.18( 73,24)      5.91(124,24)      5.56(363,24)
      27.     -390.    392.     14.11(124,24)     13.40( 94,24)     12.47( 97,24)     11.75( 23,24)     11.57(136,24)
      27.      610.    293.     10.17( 63,24)      9.30(115,24)      9.17( 41,24)      8.97( 92,24)      8.90( 81,24)
      27.     1610.    502.      7.29(140,24)      6.87(104,24)      6.69(139,24)      6.67(134,24)      6.28( 63,24)
      27.     2410.    428.      3.23(140,24)      3.06(115,24)      2.70(123,24)      2.60(133,24)      2.30( 96,24)
      27.     2610.    489.      2.80(140,24)      2.28( 74,24)      2.16(114,24)      2.13(133,24)      2.13(123,24)
      27.     3610.    555.      0.91(107,24)      0.89(123,24)      0.85( 62,24)      0.80( 78,24)      0.80( 63,24)
      27.     4610.    605.      0.58( 63,24)      0.55( 45,24)      0.53(114,24)      0.51( 39,24)      0.47( 41,24)
      27.     4810.    609.      0.62(114,24)      0.53( 45,24)      0.49( 63,24)      0.48( 39,24)      0.44( 41,24)
      27.     5610.    487.      0.63(285,24)      0.61( 86,24)      0.60(114,24)      0.58(172,24)      0.46(150,24)
     227.     -590.    373.     11.08(352,24)     10.95( 97,24)     10.18(135,24)      9.43(124,24)      8.46(138,24)
     227.     2410.    426.      3.97(140,24)      2.38(123,24)      2.33( 74,24)      2.28( 96,24)      2.24(134,24)
     227.     4810.    608.      0.60( 63,24)      0.59( 45,24)      0.50( 84,24)      0.47( 96,24)      0.47( 37,24)
     427.     -790.    365.      7.00(135,24)      6.80(124,24)      5.84( 87,24)      5.81(153,24)      5.47(117,24)
     427.     -590.    366.     10.00(137,24)      9.25(146,24)      7.64(150,24)      7.32(147,24)      6.31(114,24)
     427.     2410.    424.      3.45(114,24)      3.00(123,24)      2.84(115,24)      2.75(134,24)      2.54(140,24)
     427.     4810.    575.      0.61( 78,24)      0.57( 45,24)      0.55( 63,24)      0.53(107,24)      0.53( 84,24)
     627.     -790.    360.      8.01(150,24)      6.74(128,24)      6.54(126,24)      6.32(147,24)      5.42(137,24)
     627.     2410.    408.      3.33(115,24)      2.75( 96,24)      2.61( 97,24)      2.58(134,24)      2.55( 92,24)
     627.     4810.    548.      0.80(107,24)      0.64(123,24)      0.63(114,24)      0.58( 82,24)      0.58( 63,24)
     827.     -790.    355.      9.67(137,24)      8.97(126,24)      7.36(152,24)      6.78( 98,24)      6.72(146,24)
     827.     2410.    372.      3.19( 86,24)      2.75( 97,24)      2.74( 92,24)      2.73(115,24)      2.64(134,24)
     827.     4810.    563.      1.08(107,24)      0.84(114,24)      0.65(123,24)      0.65( 63,24)      0.59( 86,24)
    1027.    -2390.    339.      2.02(135,24)      1.45(124,24)      1.44( 97,24)      1.42(352,24)      1.31(363,24)
    1027.    -1390.    346.      2.68(137,24)      2.67(150,24)      2.51(146,24)      2.49(168,24)      2.26(147,24)
    1027.     -790.    350.      6.55(150,24)      5.97(152,24)      5.75(147,24)      5.31(119,24)      5.13(137,24)
    1027.     -390.    351.      8.53( 98,24)      8.25(151,24)      6.77(133,24)      6.57(127,24)      5.97(152,24)
    1027.      610.    320.     11.98( 89,24)      8.20(149,24)      7.97( 95,24)      7.48(111,24)      7.43(139,24)
    1027.     1610.    398.     20.32( 70,24)     19.82(218,24)*    15.63(151,24)     15.21(122,24)     14.68( 96,24)
    1027.     2410.    363.      3.56(115,24)      2.92( 92,24)      2.57( 86,24)      2.45(114,24)      2.35(150,24)
    1027.     2610.    365.      2.91( 86,24)      2.77(115,24)      2.44( 92,24)      2.30(150,24)      2.28( 62,24)
    1027.     3610.    422.      1.70(107,24)      1.65( 86,24)      1.62(115,24)      1.61( 93,24)      1.49( 92,24)
    1027.     4610.    541.      0.91(107,24)      0.81( 81,24)      0.79(114,24)      0.69( 63,24)      0.66( 62,24)
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                                        HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                HIGHEST FIVE CONCENTRATIONS
     METERS                                           VALUE(DAY,ENDING HOUR)

  X          Y       ELEV.        HIGHEST         2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------
    1027.     4810.    548.      0.79(107,24)      0.77(114,24)      0.75( 81,24)      0.65( 63,24)      0.64( 62,24)
    1027.     5610.    600.      0.62(114,24)      0.52( 63,24)      0.51(113,24)      0.45(107,24)      0.45( 62,24)
    1227.     -790.    344.      4.74(152,24)      4.65(150,24)      4.39(126,24)      3.97(137,24)      3.67(147,24)
    1227.     2410.    355.      4.51(115,24)      4.01( 86,24)      3.61(107,24)      3.43( 93,24)      3.32( 62,24)
    1227.     4810.    585.      0.67( 63,24)      0.64(114,24)      0.58( 62,24)      0.55(113,24)      0.49( 29,24)
    1427.     -990.    337.      4.49(152,24)      3.91(150,24)      3.53(126,24)      3.53(137,24)      3.25(124,24)
    1427.     -790.    338.      4.93( 98,24)      4.19( 97,24)      3.96(152,24)      3.47(135,24)      3.40(151,24)
    1427.     2410.    346.      3.51( 63,24)      3.31(115,24)      2.28( 62,24)      2.13( 92,24)      2.13(104,24)
    1427.     4810.    588.      0.81( 63,24)      0.63( 41,24)      0.59( 62,24)      0.59(114,24)      0.55(104,24)
    1627.    -1190.    331.      4.37(152,24)      3.40(150,24)      3.27(136,24)      3.26(124,24)      3.24(137,24)
    1627.     -990.    332.      4.41( 98,24)      3.73(152,24)      3.68(124,24)      3.52( 97,24)      3.01(138,24)
    1627.     1610.    331.      5.48(115,24)      4.68(114,24)      4.41( 91,24)      4.37(134,24)      4.21(110,24)
    1627.     1810.    331.      4.47(115,24)      4.40( 89,24)      3.89(122,24)      3.69(100,24)      3.49(144,24)
    1627.     2010.    332.      5.44(115,24)      5.11(114,24)      4.47( 41,24)      4.16( 92,24)      4.14( 97,24)
    1627.     2210.    333.      5.57(115,24)      4.02(114,24)      3.62( 92,24)      3.46( 41,24)      3.41( 63,24)
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     1627.      2410.     337.      4.40(115,24)      3.13(114,24)      2.96( 63,24)      2.62( 41,24)      2.37(134,24)
     1627.      4810.     532.      0.96( 63,24)      0.80( 41,24)      0.65( 62,24)      0.54( 81,24)      0.53(285,24)
     1627.      5010.     533.      0.86( 63,24)      0.74( 41,24)      0.57( 62,24)      0.51(285,24)      0.50( 81,24)
     1827.     -1390.     325.      4.33(152,24)      3.77(124,24)      3.08(137,24)      2.87( 98,24)      2.86(150,24)
     1827.     -1190.     326.      3.81(152,24)      3.72(124,24)      3.38( 98,24)      2.93(138,24)      2.92( 97,24)
     1827.      1610.     321.      7.56(115,24)      4.63(116,24)      4.44(114,24)      3.87( 92,24)      3.64(134,24)
     1827.      5010.     486.      0.85(114,24)      0.84( 63,24)      0.73(172,24)      0.73( 41,24)      0.65( 81,24)
     2027.     -2390.     309.      2.26(124,24)      2.00(150,24)      1.72(126,24)      1.67(147,24)      1.60(168,24)
     2027.     -1390.     320.      3.09(152,24)      2.76( 98,24)      2.52( 97,24)      2.51(137,24)      2.43(135,24)
     2027.      -390.     322.      4.39(133,24)      4.12(138,24)      3.99(151,24)      3.93(127,24)      3.91( 70,24)
     2027.       610.     317.     14.02(150,24)     10.91(126,24)     10.69(147,24)      9.73( 95,24)      9.40(151,24)
     2027.      1410.     313.     13.45(115,24)      7.01(114,24)      6.27( 62,24)      6.07( 92,24)      5.29(116,24)
     2037.      1231.     311.     22.82(115,24)*    11.37(114,24)     10.24( 62,24)      9.75(116,24)      9.64(134,24)
     2027.      1610.     312.     10.58(115,24)      5.77(114,24)      4.45(116,24)      4.43( 70,24)      4.12( 62,24)
     2027.      2610.     327.      2.96(115,24)      2.17(114,24)      2.13( 62,24)      1.83(116,24)      1.73( 63,24)
     2027.      3610.     342.      2.40(114,24)      2.39(115,24)      1.14( 62,24)      1.04( 81,24)      0.99( 90,24)
     2027.      4610.     440.      1.69(114,24)      1.27(115,24)      0.80( 62,24)      0.80( 81,24)      0.78(172,24)
     2027.      5010.     469.      1.39(114,24)      1.06(115,24)      0.71(172,24)      0.70( 81,24)      0.67( 62,24)
     2027.      5610.     515.      0.72(114,24)      0.64( 81,24)      0.55( 63,24)      0.55( 41,24)      0.49(285,24)
     2227.     -1590.     313.      2.56(152,24)      2.46( 98,24)      2.42(137,24)      2.26( 97,24)      2.20(136,24)
     2227.       610.     311.     11.15(127,24)     10.42(150,24)      9.92(151,24)      9.68(137,24)      9.41(153,24)
     2227.       810.     310.      8.36(134,24)      7.70(149,24)      7.55(133,24)      7.50(109,24)      7.02(123,24)
     2227.      1210.     305.     10.21(134,24)      8.35(120,24)      7.88(106,24)      7.68(122,24)      6.27(148,24)
     2227.      1410.     305.      6.44(115,24)      5.55(134,24)      4.25( 62,24)      3.79(104,24)      3.71( 91,24)
     2227.      5010.     438.      1.77(114,24)      1.29(115,24)      0.73(116,24)      0.71( 62,24)      0.70(172,24)
     2427.     -1590.     309.      2.14( 98,24)      2.04( 97,24)      1.97(152,24)      1.95(135,24)      1.89(124,24)
     2427.       410.     307.      6.83(150,24)      6.25(127,24)      5.84( 98,24)      5.78(151,24)      5.76(126,24)
     2427.       610.     304.      6.59(123,24)      6.31(133,24)      6.20(134,24)      5.57(119,24)      5.38(132,24)
     2427.       810.     305.      5.63(134,24)      5.35(123,24)      5.33( 99,24)      4.77( 70,24)      4.70( 89,24)
     2427.      1210.     305.      8.78( 89,24)      5.32( 88,24)      4.78(104,24)      4.62(106,24)      4.59(134,24)
     2427.      5010.     426.      1.65(115,24)      1.58(114,24)      0.72( 62,24)      0.70(116,24)      0.70(172,24)
     2627.     -1590.     304.      1.98(152,24)      1.76(150,24)      1.74(117,24)      1.71(137,24)      1.71(170,24)
     2627.     -1390.     304.      1.98(150,24)      1.91(137,24)      1.80( 87,24)      1.80(152,24)      1.76(168,24)
     2627.      -390.     305.      3.42(133,24)      3.12(135,24)      3.12(146,24)      2.93(134,24)      2.78(151,24)
1                                                                                                POSTZ - PAGE NO.   7


                                                  HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                                  HIGHEST FIVE CONCENTRATIONS
        METERS                                                           VALUE(DAY,ENDING HOUR)

      X            Y         ELEV.          HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
---------------------------------------------------------------------------------------------------------------------------
     2627.      -190.     304.      4.41(147,24)      4.28(150,24)      3.94(126,24)      3.92(128,24)      3.85(146,24)
     2627.        10.     305.      5.25(150,24)      4.63(147,24)      4.49(126,24)      4.22(152,24)      4.07(125,24)
     2627.       210.     305.      5.05(127,24)      4.67( 98,24)      4.53(151,24)      4.52(147,24)      4.43(152,24)
     2627.       410.     305.      4.66(119,24)      4.50(123,24)      4.14(133,24)      4.07(132,24)      3.96( 99,24)
     2627.       610.     305.      4.89(123,24)      3.97( 70,24)      3.96(134,24)      3.69(138,24)      3.58( 89,24)
     2627.       810.     305.      4.93( 99,24)      3.66(110,24)      3.43( 89,24)      3.41(103,24)      3.31(149,24)
     2627.      1010.     305.      6.11( 89,24)      4.16( 99,24)      3.29(144,24)      3.18(115,24)      3.18(111,24)
     2627.      1210.     305.      4.97(122,24)      4.12( 89,24)      4.09( 88,24)      3.19(150,24)      2.91(103,24)
     2262.       433.     311.     13.14(150,24)     11.67(137,24)     10.32(134,24)     10.31(147,24)     10.09(152,24)
     2627.      5010.     380.      2.00(115,24)      1.22(114,24)      0.69(172,24)      0.68( 92,24)      0.65(109,24)
     2827.     -1390.     301.      2.09(137,24)      1.84(126,24)      1.75(168,24)      1.73( 87,24)      1.73(135,24)
     2827.     -1190.     302.      2.06(135,24)      2.05(137,24)      1.98(117,24)      1.89(138,24)      1.88(152,24)
     2827.      -990.     302.      2.05(138,24)      1.92( 87,24)      1.91(109,24)      1.87(134,24)      1.86(133,24)
     2827.      -790.     302.      2.06(134,24)      2.03( 70,24)      2.00(127,24)      1.99(128,24)      1.98( 87,24)
     2827.      -590.     303.      3.04(133,24)      2.61(146,24)      2.48(127,24)      2.30(151,24)      2.15(137,24)
     2827.      -390.     303.      3.38(150,24)      3.29(147,24)      3.19(126,24)      3.03(151,24)      2.92(146,24)
     2827.      -190.     303.      3.96(150,24)      3.86(147,24)      3.54(126,24)      3.28(127,24)      3.27(152,24)
     2827.        10.     303.      3.93(151,24)      3.77(152,24)      3.50( 98,24)      3.42(127,24)      3.40(137,24)
     2827.      5010.     358.      1.82(115,24)      1.14(114,24)      0.81( 92,24)      0.65(172,24)      0.59(109,24)
     3027.     -2390.     297.      1.90(137,24)      1.62(135,24)      1.58(152,24)      1.56( 98,24)      1.53(170,24)
     3027.     -1390.     298.      1.83(117,24)      1.75(137,24)      1.69(168,24)      1.69(170,24)      1.68(135,24)
     3027.      -390.     300.      3.12(150,24)      3.02(147,24)      2.90(126,24)      2.89(151,24)      2.80(125,24)
     3027.       610.     301.      2.73( 99,24)      2.63( 89,24)      2.47(110,24)      2.43(100,24)      2.29(144,24)
     3027.      1610.     302.      2.36(134,24)      2.34(144,24)      2.23( 89,24)      1.96(106,24)      1.92( 70,24)
     3027.      2610.     303.      1.94(115,24)      1.33( 62,24)      1.33( 90,24)      1.19(134,24)      1.10(104,24)
     3027.      3610.     305.      2.30(115,24)      1.57( 62,24)      1.11(116,24)      1.01(114,24)      0.95( 90,24)
     3027.      4610.     333.      1.65(115,24)      0.82(116,24)      0.76( 62,24)      0.66( 92,24)      0.66( 97,24)
     3027.      5010.     348.      1.76(115,24)      0.88(114,24)      0.79( 92,24)      0.68(116,24)      0.61( 97,24)
     3027.      5610.     372.      1.80(115,24)      1.03(114,24)      0.74( 92,24)      0.62(172,24)      0.51( 62,24)
     3227.      5010.     338.      1.44(115,24)      0.75(116,24)      0.66( 62,24)      0.58( 97,24)      0.58(172,24)
     3227.      5210.     345.      1.51(115,24)      0.70(116,24)      0.63(114,24)      0.61( 97,24)      0.60( 62,24)
     3227.      5610.     362.      1.75(115,24)      0.88(114,24)      0.74( 92,24)      0.60(172,24)      0.55( 97,24)
     3227.      6010.     373.      1.73(115,24)      0.94(114,24)      0.71( 92,24)      0.58(172,24)      0.46( 62,24)

 * - DENOTES PEAK VALUE
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                                         HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
      METERS                                                     VALUE(DAY,ENDING HOUR)

   X           Y        ELEV.          HIGHEST            2ND HIGH             3RD HIGH             4TH HIGH             5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------------
   -5973.     -2390.     798.         0.01(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -5973.     -1390.     793.         0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -5973.      -390.     781.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -5973.       610.     852.         0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -5973.      1610.     731.         0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -5973.      2610.     730.         0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -5973.      3610.     728.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -5973.      4610.     747.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -5973.      5610.     625.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4973.     -2390.     797.         0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4973.     -1390.     731.         0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4973.      -390.     652.         0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4973.      1610.     771.         0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4973.      2610.     792.         0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4973.      3610.     904.         0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4973.      4610.     858.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4973.      5610.     570.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4773.       410.     646.         0.37(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4773.       610.     669.         0.47(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4773.       810.     666.         0.34(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4773.      1010.     695.         0.25(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4773.      1210.     730.         0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4773.      1210.     730.         0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4573.       410.     633.         0.82(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4573.      1210.     722.         0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4573.      4810.     853.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4373.        10.     609.         0.38(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4373.       210.     554.         0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4373.       410.     583.         0.56(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4373.      1410.     694.         0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4373.      1610.     756.         0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4373.      1610.     756.         0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4373.      4810.     856.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4173.        10.     553.         0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4173.      1610.     787.         0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -4173.      4810.     828.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.     -2390.     767.         0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.     -1390.     732.         0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.      -390.     548.         0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.        10.     549.         0.49(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.       610.     722.         0.60(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.      1610.     773.         0.20(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.      2610.     875.         0.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.      3610.     914.         0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.      4610.     954.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.      4810.     838.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3973.      5610.     686.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3773.        10.     549.         0.36(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3773.      1610.     755.         0.19(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
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                                         HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
      METERS                                                     VALUE(DAY,ENDING HOUR)

   X           Y        ELEV.          HIGHEST            2ND HIGH             3RD HIGH             4TH HIGH             5TH HIGH
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   -3773.      1810.     792.         0.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3773.      2010.     824.         0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3773.      4810.     839.         0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3573.        10.     549.         0.30(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3573.      2010.     848.         0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3573.      4810.     852.         0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3373.        10.     549.         0.25(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3373.      2010.     799.         0.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3373.      4810.     831.         0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
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    -3273.     2010.    787.         0.17(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -3273.     2210.    841.         0.15(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -3273.     2410.    862.         0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -3173.       10.    567.         0.27(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -3173.     2410.    841.         0.15(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -3173.     4810.    806.         0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.    -2390.    661.         0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.    -1390.    613.         0.13(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.     -390.    609.         0.25(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.       10.    601.         0.35(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.      610.    579.         0.86(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.     1610.    823.         0.19(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.     2410.    784.         0.19(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.     2610.    786.         0.18(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.     3610.    865.         0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.     4610.    770.         0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.     4810.    747.         0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2973.     5610.    642.         0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2773.       10.    609.         0.54(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2773.     2410.    731.         0.21(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2773.     4810.    724.         0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2573.       10.    587.         0.81(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2573.     2410.    732.         0.24(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2573.     4810.    713.         0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2373.       10.    574.         1.50(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2373.     2410.    726.         0.25(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2373.     4810.    700.         0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2173.       10.    564.         1.40(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2173.     2410.    675.         0.27(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -2173.     4810.    675.         0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.    -2390.    487.         0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.    -1390.    522.         0.17(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.     -390.    487.         0.39(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.     -190.    526.         0.63(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.       10.    549.         0.83(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.      210.    549.         1.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.      410.    547.         1.47(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.      610.    479.         0.48(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.     1610.    768.         0.47(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.     2410.    675.         0.27(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
1                                                                                                         POSTZ - PAGE NO.  10


                                           HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
        METERS                                                    VALUE(DAY,ENDING HOUR)

     X           Y       ELEV.         HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
----------------------------------------------------------------------------------------------------------------------------
    -1973.     2610.    799.         0.21(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.     3610.    696.         0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.     4610.    628.         0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.     4810.    646.         0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1973.     5610.    597.         0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1773.     -790.    529.         0.29(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1773.     -590.    497.         0.33(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1773.      210.    539.         0.68(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1773.      410.    491.         0.71(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1773.     2410.    668.         0.29(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1773.     4810.    609.         0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.    -1190.    433.         0.19(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.     -990.    459.         0.23(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.     -790.    482.         0.26(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.     -590.    487.         0.30(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.     -390.    465.         0.31(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.     -190.    475.         0.37(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.       10.    505.         0.47(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.      210.    495.         0.52(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.      410.    482.         0.64(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.     2410.    648.         0.32(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1573.     4810.    609.         0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1373.    -1190.    427.         0.21(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1373.     2410.    609.         0.35(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1373.     4810.    575.         0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1173.    -1190.    423.         0.22(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1173.     -990.    423.         0.24(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1173.     -790.    424.         0.25(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -1173.     -590.    425.         0.27(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
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   -1173.      -390.     425.        0.31(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -1173.      2410.     610.        0.37(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -1173.      4810.     555.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.     -2390.     407.        0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.     -1390.     411.        0.22(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      -390.     421.        0.36(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      -190.     423.        0.45(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.       610.     387.        2.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      1610.     594.        1.31(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      2410.     610.        0.38(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      2610.     609.        0.32(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      3610.     609.        0.17(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      4610.     551.        0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      4810.     549.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      5610.     549.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      -190.     420.        0.55(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      2010.     603.        0.60(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      2210.     610.        0.48(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      2410.     610.        0.39(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      4810.     549.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
1                                                                                                         POSTZ - PAGE NO.  11


                                              HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                              HIGHEST FIVE CONCENTRATIONS
        METERS                                                        VALUE(DAY,ENDING HOUR)

      X            Y        ELEV.          HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
---------------------------------------------------------------------------------------------------------------------------------
    -573.      -190.     417.        0.76(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -573.      2010.     593.        0.58(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -573.      2210.     609.        0.48(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -573.      2410.     610.        0.40(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -573.      4810.     572.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      -390.     410.        0.80(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      -190.     418.        0.96(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      2010.     564.        0.62(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      2210.     594.        0.49(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      2410.     599.        0.42(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      4810.     598.        0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -173.      -390.     402.        1.05(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -173.      2410.     502.        0.50(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -173.      4810.     609.        0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.     -2390.     366.        0.19(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.     -1390.     366.        0.35(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      -590.     384.        0.91(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      -390.     392.        1.64(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.       610.     293.        2.34(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      1610.     502.        1.57(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      2410.     428.        0.52(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      2610.     489.        0.43(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      3610.     555.        0.18(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      4610.     605.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      4810.     609.        0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      5610.     487.        0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     227.      -590.     373.        1.26(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     227.      2410.     426.        0.53(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     227.      4810.     608.        0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     427.      -790.     365.        0.93(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     427.      -590.     366.        1.32(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     427.      2410.     424.        0.55(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     427.      4810.     575.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     627.      -790.     360.        0.97(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     627.      2410.     408.        0.55(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     627.      4810.     548.        0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     827.      -790.     355.        1.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     827.      2410.     372.        0.52(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     827.      4810.     563.        0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.     -2390.     339.        0.25(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.     -1390.     346.        0.51(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      -790.     350.        0.99(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      -390.     351.        1.32(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.       610.     320.        1.92(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      1610.     398.        2.76(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      2410.     363.        0.52(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      2610.     365.        0.44(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      3610.     422.        0.22(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      4610.     541.        0.12(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
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                              HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
      METERS                                                VALUE(DAY,ENDING HOUR)

    X          Y        ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
------------------------------------------------------------------------------------------------------------------------------------
    1027.      4810.     548.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      5610.     600.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1227.      -790.     344.       0.88(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1227.      2410.     355.       0.54(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1227.      4810.     585.       0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1427.      -990.     337.       0.75(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1427.      -790.     338.       0.85(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1427.      2410.     346.       0.49(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1427.      4810.     588.       0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1627.     -1190.     331.       0.66(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1627.      -990.     332.       0.73(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1627.      1610.     331.       1.32(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1627.      1810.     331.       1.20(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1627.      2010.     332.       0.79(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1627.      2210.     333.       0.58(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1627.      2410.     337.       0.47(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1627.      4810.     532.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1627.      5010.     533.       0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1827.     -1390.     325.       0.59(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1827.     -1190.     326.       0.64(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1827.      1610.     321.       1.05(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1827.      5010.     486.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.     -2390.     309.       0.32(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.     -1390.     320.       0.56(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.      -390.     322.       1.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.       610.     317.       2.99(  4,24)*      0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.      1410.     313.       1.17(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2037.      1231.     311.       2.19(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.      1610.     312.       0.92(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.      2610.     327.       0.32(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.      3610.     342.       0.19(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.      4610.     440.       0.13(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.      5010.     469.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2027.      5610.     515.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2227.     -1590.     313.       0.50(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2227.       610.     311.       2.74(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2227.       810.     310.       2.21(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2227.      1210.     305.       1.28(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2227.      1410.     305.       0.88(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2227.      5010.     438.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2427.     -1590.     309.       0.48(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2427.       410.     307.       1.65(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2427.       610.     304.       1.58(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2427.       810.     305.       1.39(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2427.      1210.     305.       0.96(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2427.      5010.     426.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.     -1590.     304.       0.47(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.     -1390.     304.       0.51(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.      -390.     305.       0.79(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
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                              HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
      METERS                                                VALUE(DAY,ENDING HOUR)

    X          Y        ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
------------------------------------------------------------------------------------------------------------------------------------
    2627.      -190.     304.       0.95(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.        10.     305.       1.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.       210.     305.       1.20(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.       410.     305.       1.18(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.       610.     305.       1.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.       810.     305.       0.98(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.      1010.     305.       0.88(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2627.      1210.     305.       0.74(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    2262.       433.     311.       2.84(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
```

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 2627.      5010.    380.        0.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 2827.     -1390.    301.        0.49(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 2827.     -1190.    302.        0.53(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 2827.      -990.    302.        0.56(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 2827.      -790.    302.        0.59(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 2827.      -590.    303.        0.64(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 2827.      -390.    303.        0.73(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 2827.      -190.    303.        0.83(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 2827.        10.    303.        0.87(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 2827.      5010.    358.        0.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.     -2390.    297.        0.33(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.     -1390.    298.        0.46(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.      -390.    300.        0.66(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.       610.    301.        0.69(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.      1610.    302.        0.43(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.      2610.    303.        0.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.      3610.    305.        0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.      4610.    333.        0.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.      5010.    348.        0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3027.      5610.    372.        0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3227.      5010.    338.        0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3227.      5210.    345.        0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3227.      5610.    362.        0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
 3227.      6010.    373.        0.08(  4,24)        0.00(  0, 0)*       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)

* - DENOTES PEAK VALUE
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                       POSTZ                 (DATED 86224)
1                                                                                                              POSTZ - PAGE NO.    1


                                              POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                      POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - PM10 - 04/17/92 - MPV
                      SHORTZ RUN TITLE:  ********************************************************************************

                      ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                         0
                      ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                   0
                      ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                     0
                      ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)          0
                      ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                    0

                 1-HOUR AVERAGE ANALYSIS:
                      ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                      ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
                      ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

                 3-HOUR AVERAGE ANALYSIS:
                      ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                      ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                       0
                      ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                 8-HOUR AVERAGE ANALYSIS:
                      ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                      ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                      ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                 24-HOUR AVERAGE ANALYSIS:
                      ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
                      ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                      ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                 ANNUAL AVERAGE ANALYSIS:
                      ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
                      ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                      ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                 USER-SPECIFIED AVERAGING TIME ANALYSIS
                      ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                      ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                      ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                      ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                            0
                      ISW(25) CALMS POLICY (1=YES,0=NO)                                                0


                      JULIAN DAY FOR START OF ANALYSIS                                                 1
                      YEAR FOR START OF ANALYSIS                                                      91
                      JULIAN DAY FOR END OF ANALYSIS                                                   5
                      YEAR FOR END OF ANALYSIS                                                        92
1                                                                                                              POSTZ - PAGE NO.    2


                                                 HIGH FIVE TABLE FOR    24 HOUR AVERAGES

     RECEPTOR COORDINATES                                              HIGHEST FIVE CONCENTRATIONS
           METERS                                                       VALUE(DAY,ENDING HOUR)

        X           Y       ELEV.         HIGHEST             2ND HIGH             3RD HIGH             4TH HIGH             5TH HIGH
----------------------------------------------------------------------------------------------------------------------------------
       2127.       1210.    308.       11.71(134,24)        8.14(120,24)         7.89(106,24)         7.67(115,24)         7.04(122,24)
       2227.       1210.    305.       10.21(134,24)        8.35(120,24)         7.88(106,24)         7.68(122,24)         6.27(148,24)
       2327.       1210.    305.        7.16( 70,24)        6.88(106,24)         6.73( 89,24)         6.73(134,24)         6.16(144,24)
       2427.       1210.    305.        8.78( 89,24)        5.32( 88,24)         4.78(104,24)         4.62(106,24)         4.59(134,24)
       2527.       1210.    305.        5.02( 89,24)        4.22(122,24)         3.71( 88,24)         3.54(134,24)         3.43(149,24)
       2627.       1210.    305.        4.97(122,24)        4.12( 89,24)         4.09( 88,24)         3.19(150,24)         2.91(103,24)
       2037.       1231.    311.       22.82(115,24)*      11.37(114,24)        10.24( 62,24)         9.75(116,24)         9.64(134,24)
       2027.       1310.    313.       15.44(115,24)        8.15(114,24)         7.68( 62,24)         6.26( 92,24)         6.11( 63,24)
       2127.       1310.    307.       12.03(115,24)        7.24(134,24)         6.06( 62,24)         5.08( 90,24)         4.59( 91,24)
       2227.       1310.    305.        8.27(134,24)        6.56(115,24)         5.14( 62,24)         4.98(106,24)         4.91(120,24)
       2327.       1310.    305.        8.01(134,24)        6.60(120,24)         6.02(106,24)         5.61(122,24)         5.47(148,24)
       2427.       1310.    305.        6.57(134,24)        4.44( 89,24)         4.19(122,24)         4.17(120,24)         3.97(106,24)
       2527.       1310.    305.        4.87( 70,24)        4.74(106,24)         4.61( 89,24)         4.40(134,24)         4.22(144,24)
       2627.       1310.    305.        6.28( 89,24)        4.16( 88,24)         3.83(104,24)         3.77(106,24)         3.40(134,24)
       2027.       1410.    313.       13.45(115,24)        7.01(114,24)         6.27( 62,24)         6.07( 92,24)         5.29(116,24)
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   2127.     1410.     308.      12.86(115,24)        6.38( 62,24)        5.39(114,24)        5.04( 90,24)        4.82(116,24)
   2227.     1410.     305.       6.44(115,24)        5.55(134,24)        4.25( 62,24)        3.79(104,24)        3.71( 91,24)
   2327.     1410.     305.       6.70(134,24)        5.61(115,24)        4.09( 62,24)        3.63( 91,24)        3.40(120,24)
   2427.     1410.     305.       6.60(134,24)        4.83(120,24)        4.71(106,24)        3.98(148,24)        3.87(115,24)
   2527.     1410.     305.       5.49(134,24)        4.64(120,24)        3.91(106,24)        3.79(122,24)        3.65(150,24)
   2627.     1410.     305.       4.33(134,24)        3.34( 89,24)        3.11(144,24)        2.96( 63,24)        2.94(122,24)
   2327.      410.     310.      10.56(150,24)        9.61(137,24)        8.89(127,24)        8.46(147,24)        8.42(126,24)
   2427.      410.     307.       6.83(150,24)        6.25(127,24)        5.84( 98,24)        5.78(151,24)        5.76(126,24)
   2527.      410.     305.       5.49( 98,24)        5.35(127,24)        5.01(152,24)        5.01(151,24)        4.48(150,24)
   2627.      410.     305.       4.66(119,24)        4.50(123,24)        4.14(133,24)        4.07(132,24)        3.96( 99,24)
   2262.      433.     311.      13.14(150,24)       11.67(137,24)*      10.32(134,24)       10.31(147,24)       10.09(152,24)
   2262.      510.     312.       9.82(137,24)        9.55(150,24)        9.09(134,24)        9.04(127,24)        8.82( 98,24)
   2327.      510.     309.       8.26(150,24)        7.94(127,24)        7.63( 98,24)        7.43(137,24)        7.30(126,24)
   2427.      510.     304.       6.39( 98,24)        6.21(152,24)        6.20(127,24)        6.03(151,24)        5.90(150,24)
   2527.      510.     304.       5.65(133,24)        5.44(123,24)        5.21(119,24)        4.69(134,24)        4.57(132,24)
   2627.      510.     305.       4.74(133,24)        4.44(123,24)        4.42(138,24)        3.85( 70,24)        3.74(134,24)
   2227.      610.     311.      11.15(127,24)       10.42(150,24)        9.92(151,24)        9.68(137,24)        9.41(153,24)
   2327.      610.     308.       8.08(127,24)        7.98(133,24)        7.94(134,24)        7.79(152,24)        7.52( 98,24)
   2427.      610.     304.       6.59(123,24)        6.31(133,24)        6.20(134,24)        5.57(119,24)        5.38(132,24)
   2527.      610.     305.       5.14(123,24)        4.72(133,24)        4.53(138,24)        4.47(134,24)        4.22( 70,24)
   2627.      610.     305.       4.89(123,24)        3.97( 70,24)        3.96(134,24)        3.69(138,24)        3.58( 89,24)
   2227.      710.     311.      10.55(150,24)       10.00(152,24)        9.82(134,24)        9.71(133,24)        9.42(119,24)
   2327.      710.     308.       7.32(133,24)        6.90(123,24)        6.80(134,24)        6.59(109,24)        6.19( 95,24)
   2427.      710.     306.       5.62(123,24)        5.34(134,24)        4.91(133,24)        4.88( 89,24)        4.65( 70,24)
   2527.      710.     304.       5.42(123,24)        4.97(134,24)        4.27( 99,24)        4.20( 89,24)        4.15( 70,24)
   2627.      710.     305.       4.19(123,24)        4.05( 89,24)        4.00( 99,24)        3.87( 70,24)        3.86(134,24)
   2227.      810.     310.       8.36(134,24)        7.70(149,24)        7.55(133,24)        7.50(109,24)        7.02(123,24)
   2327.      810.     307.       7.08(123,24)        6.78(134,24)        6.54(133,24)        5.93( 70,24)        5.86(149,24)
   2427.      810.     305.       5.63(134,24)        5.35(123,24)        5.33( 99,24)        4.77( 70,24)        4.70( 89,24)
   2527.      810.     304.       5.08( 99,24)        4.30(149,24)        4.18(110,24)        4.11(134,24)        3.85( 89,24)
   2627.      810.     305.       4.93( 99,24)        3.66(110,24)        3.43( 89,24)        3.41(103,24)        3.31(149,24)

* - DENOTES PEAK VALUE
1                                                                                                POSTZ - PAGE NO.   3


                                           HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
      METERS                                                     VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.          HIGHEST           2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
   2127.     1210.     308.       1.56(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2227.     1210.     305.       1.28(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2327.     1210.     305.       1.08(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2427.     1210.     305.       0.96(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2527.     1210.     305.       0.82(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2627.     1210.     305.       0.74(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2037.     1231.     311.       2.19(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2027.     1310.     313.       1.44(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2127.     1310.     307.       1.17(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2227.     1310.     305.       1.06(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2327.     1310.     305.       0.95(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2427.     1310.     305.       0.83(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2527.     1310.     305.       0.77(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2627.     1310.     305.       0.72(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2027.     1410.     313.       1.17(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2127.     1410.     308.       1.03(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2227.     1410.     305.       0.88(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2327.     1410.     305.       0.84(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2427.     1410.     305.       0.77(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2527.     1410.     305.       0.71(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2627.     1410.     305.       0.64(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2327.      410.     310.       2.25(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2427.      410.     307.       1.65(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2527.      410.     305.       1.38(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2627.      410.     305.       1.18(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2262.      433.     311.       2.84(  4,24)*       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2262.      510.     312.       2.62(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2327.      510.     309.       2.05(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2427.      510.     304.       1.61(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2527.      510.     304.       1.34(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2627.      510.     305.       1.13(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2227.      610.     311.       2.74(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2327.      610.     308.       2.09(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2427.      610.     304.       1.58(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2527.      610.     305.       1.27(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
   2627.      610.     305.       1.08(  4,24)        0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)       0.00(  0,  0)
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  2227.       710.    311.        2.67(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2327.       710.    308.        1.80(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2427.       710.    306.        1.46(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2527.       710.    304.        1.22(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2627.       710.    305.        1.06(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2227.       810.    310.        2.21(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2327.       810.    307.        1.72(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2427.       810.    305.        1.39(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2527.       810.    304.        1.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
  2627.       810.    305.        0.98(  4,24)       0.00(  0, 0)*      0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)

* - DENOTES PEAK VALUE
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                  POSTZ               (DATED 86224)
1                                                                                                     POSTZ - PAGE NO.   1


                                            POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                 POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - CO - 04/20/92 - MPV
                 SHORTZ RUN TITLE:  ********************************************************************************

                 ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                           0
                 ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                     0
                 ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                       0
                 ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)            0
                 ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                      0

            1-HOUR AVERAGE ANALYSIS:
                 ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                          1
                 ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                          0
                 ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                      0

            3-HOUR AVERAGE ANALYSIS:
                 ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                          0
                 ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                         0
                 ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

            8-HOUR AVERAGE ANALYSIS:
                 ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         1
                 ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                         0
                 ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

            24-HOUR AVERAGE ANALYSIS:
                 ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         0
                 ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                         0
                 ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

            ANNUAL AVERAGE ANALYSIS:
                 ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         0
                 ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                         0
                 ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

            USER-SPECIFIED AVERAGING TIME ANALYSIS
                 ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         0
                 ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                         0
                 ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

                 ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                              0
                 ISW(25) CALMS POLICY (1=YES,0=NO)                                                  0


                 JULIAN DAY FOR START OF ANALYSIS                                                   1
                 YEAR FOR START OF ANALYSIS                                                        91
                 JULIAN DAY FOR END OF ANALYSIS                                                     5
                 YEAR FOR END OF ANALYSIS                                                          92
1                                                                                                     POSTZ - PAGE NO.   2


                                                HIGH FIVE TABLE FOR     1 HOUR AVERAGES

 RECEPTOR COORDINATES                                              HIGHEST FIVE CONCENTRATIONS
      METERS                                                        VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.         HIGHEST              2ND HIGH             3RD HIGH             4TH HIGH             5TH HIGH
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   -5973.      -2390.    798.         10.49(120,19)         6.70(151, 9)         5.68(106, 8)         3.74(137, 8)         2.44( 79, 9)
   -5973.      -1390.    793.          8.82( 51, 3)         5.32(106, 7)         5.07(103,17)         4.57( 93,17)         3.71(108, 8)
   -5973.       -390.    781.         29.88(  7,22)        15.72( 68, 6)        11.88( 77, 7)        11.54(124, 8)         9.59( 75, 7)
   -5973.        610.    852.         13.93( 74, 6)         8.60( 92, 8)         6.60( 82, 8)         6.55( 70, 9)         5.75( 93,18)
   -5973.       1610.    731.          9.92( 74, 4)         8.74( 70, 7)         6.88(122,18)         6.55(134, 8)         5.54( 70, 8)
   -5973.       2610.    730.         10.16( 74, 1)         8.54(135, 8)         8.06( 82, 8)         6.66(126, 8)         6.47( 74, 8)
   -5973.       3610.    728.         16.23( 98,19)        10.52( 92, 7)         9.76(139,18)         4.47(148, 9)         4.46( 74, 2)
   -5973.       4610.    747.         16.39( 74, 4)        11.86(151, 8)        11.28( 70, 7)         8.78(140, 8)         8.40( 70, 8)
   -5973.       5610.    625.         15.03( 74, 2)         7.85( 84,23)         6.56(129,18)         6.51(140, 7)         6.18(147, 7)
   -4973.      -2390.    797.          7.47(106, 7)         5.26(137, 8)         5.17(114, 8)         4.97(108, 8)         4.35(117, 8)
   -4973.      -1390.    731.         21.41(120,19)        13.81( 74, 5)        11.58(106, 8)        10.16(151, 9)         7.68( 50, 4)
   -4973.       -390.    652.         25.28(  7,22)        20.65(120,19)        17.67(151, 9)        17.54(117, 7)        16.93( 61,22)
   -4973.       1610.    771.         18.83(100,19)        16.82(107,19)        11.64( 95, 8)        11.48( 77, 6)        10.40(111,18)
   -4973.       2610.    792.         13.50(112,19)        12.96(135, 8)        12.59(126, 8)        11.09( 88, 8)         8.89(136, 9)
   -4973.       3610.    904.         10.27(146,17)        10.12( 70, 8)         9.03( 96, 8)         8.26(122,18)         7.33(105,18)
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    -4973.      4610.    858.       9.69(129,18)       8.01(120,18)       6.61( 94,19)       6.22(122,18)       5.40( 70, 8)
    -4973.      5610.    570.       8.46(145,18)       7.88(140, 7)       5.47(132,18)       5.30(120,18)       5.12(218, 8)
    -4773.       410.    646.      61.20( 95,19)      47.92(112,19)      42.42(135, 8)      41.95(126, 8)      37.80( 88, 8)
    -4773.       610.    669.      60.07( 74, 4)      54.50(151, 8)      46.77( 70, 7)      45.67( 44, 4)      45.64(100,18)
    -4773.       810.    666.      34.84( 77, 5)      30.59( 74, 6)      29.51( 44,23)      29.05( 74, 2)      28.52(354, 6)
    -4773.      1010.    695.      38.63( 74, 1)      33.27( 74, 6)      29.46( 45,24)      29.15(132,18)      28.85(136,18)
    -4773.      1210.    730.      29.36(100,19)      24.21(107,19)      19.45( 82, 7)      16.57(144,17)      16.46( 95, 8)
    -4773.      1210.    730.      29.36(100,19)      24.21(107,19)      19.45( 82, 7)      16.57(144,17)      16.46( 95, 8)
    -4573.       410.    633.     126.89( 98,19)      76.64(123,15)      72.45( 94, 8)      71.49(113, 9)      67.77( 72,21)
    -4573.      1210.    722.      24.56(  5,21)      24.27( 37,22)      18.70(148,17)      17.88(153, 8)      16.15(149,17)
    -4573.      4810.    853.       9.81(120,18)       6.47(145,18)       6.26(104, 8)       5.73(109, 8)       5.60( 94,19)
    -4373.        10.    609.     104.43( 50, 4)      75.67( 61,22)      73.28(107, 5)      70.72(  1,16)      67.99(  1,17)
    -4373.       210.    554.      30.41( 72,20)      30.24( 77, 5)      26.70(107, 2)      24.98(354, 6)      22.94( 43, 7)
    -4373.       410.    583.      53.29( 93,19)      48.22( 25,16)      45.34( 74,17)      45.23( 39,14)      44.86( 66,19)
    -4373.      1410.    694.      16.18(104, 4)      14.35( 75,20)      13.58(150,17)      12.87(135,18)      12.03(107,18)
    -4373.      1610.    756.      12.12(135,18)      11.41( 70, 9)      10.71( 68,20)      10.57(151, 8)       9.97(107,18)
    -4373.      1610.    756.      12.12(135,18)      11.41( 70, 9)      10.71( 68,20)      10.57(151, 8)       9.97(107,18)
    -4373.      4810.    856.      10.06(145,18)       8.24(120,18)       6.78(104, 8)       6.72(109, 8)       6.08(132,18)
    -4173.        10.    553.      33.57(  1,11)      33.00(  7,22)      27.51( 27,17)      20.99(107, 4)      20.64(149, 1)
    -4173.      1610.    787.      15.62( 74, 4)      15.49(144,18)      15.08(104, 6)      13.97( 68,20)      13.93(133,18)
    -4173.      4810.    828.      12.73(145,18)      10.00(132,18)       6.90(109, 8)       6.48(150, 9)       6.45(104, 8)
    -3973.     -2390.    767.       9.04( 74, 5)       7.71( 73,24)       7.32(114, 8)       7.29( 23, 4)       6.90(115, 8)
    -3973.     -1390.    732.      23.30(117, 7)      14.73( 51, 3)      14.60( 92, 6)      14.22( 60, 2)      12.39( 22,24)
    -3973.      -390.    548.      52.49( 96,23)      27.97( 46, 3)      21.16(102, 2)      16.62(149, 1)      15.93(103,17)
    -3973.        10.    549.      34.84(149, 1)      32.23(  7,22)      31.66( 57, 3)      30.98( 48, 7)      30.05(  3, 4)
    -3973.       610.    722.      72.31( 28,20)      69.96(133, 1)      68.48( 37,23)      68.19( 51, 1)      67.90(366, 6)
    -3973.      1610.    773.      18.42( 68,20)      17.32(120,22)      15.41(100,22)      15.32(134,18)      14.99( 70, 9)
    -3973.      2610.    875.      22.58(139,18)      11.75(146,17)      10.01(148, 9)       9.99( 94, 8)       8.75(136,17)
    -3973.      3610.    914.      14.37(129,18)      12.50(122,18)      11.37(120,18)      10.50( 70, 8)       8.90(106,18)
    -3973.      4610.    954.      14.05(145,18)      11.62(132,18)       7.58(136,18)       7.55( 98,18)       6.94(104, 8)
    -3973.      4810.    838.      13.19(145,18)      13.06(132,18)       9.35(136,18)       9.32( 98,18)       7.34(150, 9)
    -3973.      5610.    686.      10.17( 74, 1)       9.40(100,19)       6.54( 82, 7)       6.16(132,18)       6.16( 98,18)
    -3773.        10.    549.      46.84(149, 1)      35.37(  7,22)      25.07( 34,20)      23.83( 68, 6)      22.54( 56,20)
    -3773.      1610.    755.      23.89( 68,20)      18.82(366, 6)      17.58( 92, 8)      17.24( 70, 9)      14.72( 82, 8)
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                                             HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                              HIGHEST FIVE CONCENTRATIONS
       METERS                                                        VALUE(DAY,ENDING HOUR)

     X          Y      ELEV.         HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
    -3773.      1810.    792.      29.13( 68,20)      21.93( 82, 8)      19.21( 92, 8)      16.38( 70, 9)      15.80(135, 8)
    -3773.      2010.    824.      21.08(126, 8)      17.70( 82, 8)      16.72( 88, 8)      16.54(136, 9)      15.87( 95,19)
    -3773.      4810.    839.      13.72(132,18)      11.13(145,18)      10.99(136,18)      10.96( 98,18)       7.10(150, 9)
    -3573.        10.    549.      59.11(  7,22)      52.73(149, 1)      46.91(107, 3)      31.87( 68, 6)      23.66( 75, 7)
    -3573.      2010.    848.      21.29( 88, 8)      18.69(136, 9)      16.31( 95,19)      16.24( 82, 8)      14.24(122,17)
    -3573.      4810.    852.      11.50(132,18)      10.30(136,18)      10.29( 98,18)       9.23(100,19)       7.45(145,18)
    -3373.        10.    549.      50.32(149, 1)      36.05( 96,23)      26.34(  7,22)      25.80(103,17)      24.60( 50, 6)
    -3373.      2010.    799.      28.69(112,19)      28.21(135, 8)      27.72(126, 8)      25.06( 88, 8)      20.36(136, 9)
    -3373.      4810.    831.      14.98(100,19)       9.54( 82, 7)       9.33(107,19)       7.96(147,17)       7.56( 98,18)
    -3273.      2010.    787.      29.59(112,19)      28.04(126, 8)      27.68(135, 8)      27.15( 98,19)      26.20( 88, 8)
    -3273.      2210.    841.      46.19( 98,19)      35.18(139,18)      18.46( 96, 7)      16.79(146,17)      15.94(148, 9)
    -3273.      2410.    862.      26.49(146,17)      24.91(139,18)      21.49( 96, 8)      19.68( 70, 8)      15.93(105,18)
    -3173.        10.    567.     113.55( 96,23)      74.58( 46, 3)      73.53(102, 2)      39.25(103,17)      38.97( 93,17)
    -3173.      2410.    841.      38.03( 96, 7)      28.70(146,17)      26.32( 70, 8)      24.44( 96, 8)      21.77(139,18)
    -3173.      4810.    806.      17.02(100,19)      11.96(107,19)      11.92( 77, 6)      11.02( 95, 8)       9.61( 82, 7)
    -2973.     -2390.    661.      21.46(  3, 1)      20.70( 74, 5)      18.03( 74, 3)       9.36( 84,24)       9.29( 52, 4)
    -2973.     -1390.    613.      24.59(352, 1)      15.48( 74, 3)      13.16(108, 5)      12.95( 68,21)      12.87( 85,20)
    -2973.      -390.    609.      37.85(107, 5)      35.71(117, 7)      32.72(120,19)      32.67( 74, 5)      30.37( 69, 3)
    -2973.        10.    601.      78.82(120,19)      72.16( 96,23)      55.69(106, 8)      54.66(151, 9)      51.10(107, 5)
    -2973.       610.    579.      64.16( 64, 2)      57.71(107,20)      50.04(364, 6)      48.36( 96, 7)      47.56(105,18)
    -2973.      1610.    823.      41.95( 68,20)      36.08( 82, 8)      31.43( 92, 8)      28.68( 70, 9)      26.12( 74, 8)
    -2973.      2410.    784.      56.16( 74, 4)      53.16(151, 8)      46.10( 70, 7)      40.71(140, 8)      39.14( 70, 8)
    -2973.      2610.    786.      59.79( 74, 4)      47.44( 70, 7)      37.36(151, 8)      36.25(122,18)      33.74( 70, 8)
    -2973.      3610.    865.      22.57(132,18)      22.07(145,18)      17.20(136,18)      17.14( 98,18)      13.30(150, 9)
    -2973.      4610.    770.      17.87(100,19)      15.78( 77, 6)      13.38( 95, 8)      13.08(107,19)       9.66( 82, 7)
    -2973.      4810.    747.      16.73( 77, 6)      14.44(100,19)      13.07( 95, 8)      11.75(107,19)       7.80(144,17)
    -2973.      5610.    642.      12.64(  5,21)      10.02( 77, 6)       9.24(148,17)       7.14(149,17)       6.87( 95, 8)
    -2773.        10.    609.      70.59(  3, 1)      67.46( 74, 3)      64.55( 68,21)      62.63( 64, 3)      61.09( 47,23)
    -2773.      2410.    731.      69.20( 74, 4)      58.20( 70, 7)      52.25(151, 8)      45.24(122,18)      43.83( 70, 8)
    -2773.      4810.    724.      17.18( 77, 6)      13.34(  5,21)      12.17( 95, 8)      11.12(148,17)       8.59(149,17)
    -2573.        10.    587.     107.79( 69, 5)     106.04(  2,24)     105.05(  2,23)     103.52( 18, 1)      92.98( 17, 3)
    -2573.      2410.    732.      69.97( 74, 2)      61.87( 74, 4)      48.99( 70, 7)      39.59(122,18)      39.45(129,18)
    -2573.      4810.    713.      16.25(  5,21)      12.61( 77, 6)      12.08(148,17)       9.33(149,17)       8.75( 95, 8)
    -2373.        10.    574.      97.48(  1,21)      95.46( 33, 3)      92.78( 17, 2)      92.00( 30, 4)      91.06( 22,24)
    -2373.      2410.    726.      75.85( 74, 2)      55.06(120,18)      44.18(129,18)      42.02(133, 8)      35.26( 94,19)
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  -2373.      4810.     700.        14.79(  5,21)       11.19( 37,22)       10.82(153, 8)       10.46(152, 8)        9.30(148,17)
  -2173.        10.     564.        79.32( 52, 2)       73.39( 10,24)       73.26( 40, 3)       72.80(117, 7)       71.00(  2,21)
  -2173.      2410.     675.        47.10(120,18)       45.74( 74, 1)       44.08( 74, 2)       40.68(145,18)       38.99(132,18)
  -2173.      4810.     675.        11.99(152, 8)       11.92( 37,22)       11.39( 84,22)       10.05(153, 8)        9.93(104, 4)
  -1973.     -2390.     487.        22.94(363,22)       20.89(355, 4)       19.70(108, 5)       19.50(363,21)       18.98(351, 5)
  -1973.     -1390.     522.        44.81(351, 5)       32.45(  3, 5)       25.08(352, 2)       23.65(108, 5)       20.29(363,22)
  -1973.      -390.     487.        45.92(  3, 1)       44.71(117, 5)       44.57( 74, 3)       44.56( 74, 5)       44.19( 80,23)
  -1973.      -190.     526.        58.66(352, 1)       50.22(  3, 1)       48.65( 74, 3)       48.61(117, 5)       48.25( 74, 5)
  -1973.        10.     549.        60.92( 59, 2)       54.95(352, 1)       54.59(  3, 1)       53.78(132,23)       53.36( 74, 3)
  -1973.       210.     549.        92.84(117, 7)       72.35( 59,24)       70.04( 53, 1)       68.73( 78, 5)       67.50(133, 5)
  -1973.       410.     547.       133.40( 60,22)      129.06(105,24)      127.91( 77,21)      127.30(127,23)      125.24(145,20)
  -1973.       610.     479.       135.20(149, 1)      124.05( 96,23)      107.99(120,19)       97.06(139, 2)       92.75( 85,22)
  -1973.      1610.     768.       113.73( 74, 4)      111.88(151, 8)      100.18(139,18)       97.20( 98,19)       95.82( 70, 7)
  -1973.      2410.     675.        55.19( 74, 1)       46.03(132,18)       44.50(145,18)       39.91(100,19)       37.90( 77, 6)
1                                                                                                     POSTZ - PAGE NO.    4


                                          HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                         HIGHEST FIVE CONCENTRATIONS
       METERS                                                  VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.          HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------------
  -1973.      2610.     799.        40.37( 77, 6)       39.79(132,18)       37.13(100,19)       36.14(145,18)       35.38( 95, 8)
  -1973.      3610.     696.        25.16(  5,21)       19.77( 77, 6)       19.00(148,17)       18.26(153, 8)       17.95(152, 8)
  -1973.      4610.     628.        16.65(104, 4)       14.43(108, 4)       12.46( 84,22)       11.98(152, 8)       11.87( 75,20)
  -1973.      4810.     646.        16.49(104, 4)       11.75( 75,20)       11.33(125,18)       11.14( 84,22)       10.16(152, 8)
  -1973.      5610.     597.        14.43(104, 4)       12.51(108, 4)       12.15(107,24)       10.26( 75,20)        8.21(125,18)
  -1773.      -790.     529.        57.17(351, 5)       40.83( 74, 5)       39.80(  3, 5)       34.97(363,22)       32.32(108, 5)
  -1773.      -590.     497.        62.31(351, 5)       48.37(  3, 1)       47.37(355, 4)       46.95( 74, 5)       42.68(  3, 5)
  -1773.       210.     539.        67.04(  3, 1)       66.61(352, 1)       65.36( 74, 5)       64.97( 74, 3)       64.86(117, 5)
  -1773.       410.     491.       125.88( 93,20)      118.82(117, 7)       94.19(114,20)       90.32(355, 3)       87.91(107, 5)
  -1773.      2410.     668.        55.78( 74, 1)       49.01( 77, 6)       45.90(100,19)       44.74(132,18)       44.13( 95, 8)
  -1773.      4810.     609.        18.04(104, 4)       16.58(107,24)       15.63(108, 4)       12.83( 75,20)       10.65(107, 1)
  -1573.     -1190.     433.        44.81(363,21)       40.32(351, 5)       39.01(355, 4)       37.44(364, 1)       34.69(363,22)
  -1573.      -990.     459.        61.69(351, 5)       48.41(363,21)       47.23(355, 4)       37.69(364, 1)       37.06(363,22)
  -1573.      -790.     482.        64.94(351, 5)       52.57(363,21)       46.73(355, 4)       41.46(  3, 5)       40.29(363,22)
  -1573.      -590.     487.        65.01(351, 5)       57.25(363,21)       50.57(  3, 5)       49.03(355, 4)       44.22(363,22)
  -1573.      -390.     465.        71.09(351, 5)       61.34(363,21)       57.85( 74, 5)       53.99(355, 4)       49.68(  3, 5)
  -1573.      -190.     475.        79.22(351, 5)       70.58(  3, 1)       66.75( 74, 3)       61.16(117, 5)       60.22(355, 4)
  -1573.        10.     505.        89.97(351, 5)       68.46(355, 4)       66.15(117, 5)       64.61(  3, 1)       63.88( 74, 3)
  -1573.       210.     495.       103.52(351, 5)       95.38(352, 1)       78.85(355, 4)       72.66(  3, 1)       72.38( 80,23)
  -1573.       410.     482.       137.76( 93,20)      121.41(351, 5)       97.33(117, 7)       91.19(355, 4)       90.77( 51, 3)
  -1573.      2410.     648.        57.79( 77, 6)       49.29( 95, 8)       48.00(100,19)       41.22(  5,21)       41.05(104, 4)
  -1573.      4810.     609.        18.13(107,24)       15.55(113,23)       14.19(107, 1)       12.06(104, 4)       11.74(135,18)
  -1373.     -1190.     427.        46.00(363,21)       44.12(364, 1)       35.86(363,22)       28.84(135, 4)       28.22( 85,20)
  -1373.      2410.     609.        62.27( 96, 6)       46.66(  5,21)       43.92(113,23)       43.80(104, 4)       43.49(107,24)
  -1373.      4810.     575.        18.07(113,23)       15.43( 93, 6)       14.30(144,18)       14.21(107, 1)       13.72(135,18)
  -1173.     -1190.     423.        49.69(364, 1)       44.09(363,21)       34.98( 94, 1)       30.63( 23, 5)       30.47(106, 5)
  -1173.      -990.     423.        59.05(363,21)       52.94(364, 1)       38.03( 94, 1)       34.69( 73,24)       33.77( 96,24)
  -1173.      -790.     424.        68.96(363,21)       55.75(364, 1)       41.64( 94, 1)       39.63( 73,24)       37.22( 96,24)
  -1173.      -590.     425.        69.92(363,21)       59.49(364, 1)       46.00( 94, 1)       45.13( 73,24)       41.29(363,22)
  -1173.      -390.     425.        68.41(363,21)       65.43(364, 1)       62.53(363,22)       51.38( 94, 1)       51.30( 73,24)
  -1173.      2410.     610.        56.56( 96, 6)       54.87(104, 4)       53.84(144,18)       47.85(107,24)       47.56(108, 4)
  -1173.      4810.     555.        21.41(123,23)       19.29(144,18)       16.90(104, 6)       15.37(113,23)       12.57(113,22)
   -973.     -2390.     407.        25.28( 94, 1)       23.19( 73,24)       19.72(364, 2)       19.24( 85,21)       19.08( 23, 4)
   -973.     -1390.     411.        35.85( 94, 1)       32.49( 73,24)       31.12(136, 6)       28.69( 77, 1)       27.76(364, 2)
   -973.      -390.     421.        74.62(364, 1)       55.61(135, 4)       53.14( 94, 1)       51.63( 92, 6)       51.63(124, 2)
   -973.      -190.     423.        97.03(364, 1)       69.52(363,21)       63.30(135, 4)       59.40( 94, 1)       58.88( 92, 6)
   -973.       610.     387.       333.16(351, 5)*     266.83(355, 4)*     174.46(352, 2)      166.24(364, 1)      163.21(  3, 5)
   -973.      1610.     594.       203.61(  3, 7)      150.63( 94, 6)      149.98(359, 1)      145.40( 77, 6)      137.60( 96, 6)
   -973.      2410.     610.        58.63(114, 3)       58.46(120,22)       58.29(144,18)       55.72(113,23)       53.15(114, 2)
   -973.      2610.     609.        51.34(120,22)       51.32(144,18)       50.12(114, 3)       46.89(113,23)       46.67(114, 2)
   -973.      3610.     609.        30.12(144,18)       26.73(104, 6)       26.19(100,22)       20.54(133,18)       19.87(113,22)
   -973.      4610.     551.        19.17(104, 6)       19.09(144,18)       15.57(123,23)       14.24(113,22)       14.10(133,18)
   -973.      4810.     549.        18.02(104, 6)       17.59(144,18)       13.73(123,23)       13.39(113,22)       13.15(133,18)
   -973.      5610.     549.        14.26(104, 6)       13.05(144,18)       10.59(113,22)       10.10(133,18)        8.96( 94, 6)
   -773.      -190.     420.        78.69( 73,24)       71.57(136, 6)       67.97( 77, 1)       64.39( 23, 4)       64.04( 94, 5)
   -773.      2010.     603.       121.77(  3, 7)       81.97(359, 1)       80.16(100,22)       78.97(366, 6)       78.63( 70, 6)
   -773.      2210.     610.        71.34(  3, 7)       67.72(366, 6)       65.87(120,22)       65.85( 97, 5)       65.69(114, 4)
   -773.      2410.     610.        59.30(366, 6)       57.62( 97, 5)       57.44(114, 4)       56.98(120,22)       56.90(114, 3)
   -773.      4810.     549.        18.35(100,22)       13.81( 81,22)       12.68(107,22)       11.92( 84,20)       11.25(104, 6)
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                                          HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)
 RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
       METERS                                                    VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.        HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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     -573.      -190.    417.      63.62( 92, 6)       63.62(124, 2)       62.94(149,21)       62.55( 87,22)       62.55(132,24)
     -573.      2010.    593.     111.97(  3, 7)       82.85(114, 4)       79.17(366, 6)       78.17(359, 1)       76.51(114, 3)
     -573.      2210.    609.      97.96(  3, 7)       78.00(114, 3)       67.81(359, 1)       64.80(366, 6)       63.64(114, 4)
     -573.      2410.    610.      85.30(  3, 7)       67.61(114, 3)       64.37(120,22)       58.52(114, 2)       56.69(366, 6)
     -573.      4810.    572.      20.76(120,22)       19.14(100,22)       18.88(114, 2)       17.30(114, 1)       15.39(134,18)
     -373.      -390.    410.      63.41( 98,21)       59.62(125, 1)       56.19( 92,24)       56.19(135, 6)       54.20(151, 5)
     -373.      -190.    418.      73.19( 92,24)       73.19(135, 6)       71.99(352, 3)       71.99(352, 4)       70.83(125, 1)
     -373.      2010.    564.     106.92(  3, 7)       75.51( 77, 4)       73.34( 97, 6)       73.34(146,18)       72.31(359, 1)
     -373.      2210.    594.      91.57(  3, 7)       67.47( 97, 5)       63.19(359, 1)       60.43(366, 6)       60.00( 97, 6)
     -373.      2410.    599.      81.63(  3, 7)       67.24(366, 6)       62.97( 97, 5)       61.63(114, 4)       56.23(359, 1)
     -373.      4810.    598.      22.73(120,22)       21.73(114, 3)       20.67(114, 2)       18.94(114, 1)       17.22(134,18)
     -173.      -390.    402.      59.55(124, 3)       57.88(128,21)       56.97( 87,22)       56.97(132,24)       54.45( 97, 4)
     -173.      2410.    502.      79.35(  3, 7)       55.90( 77, 4)       55.90(115, 2)       55.90(115, 4)       53.14(359, 1)
     -173.      4810.    609.      22.33(114, 3)       18.05(120,22)       16.40(114, 2)       15.04(114, 1)       14.24(114, 4)
       27.     -2390.    366.      25.14( 98,21)       20.70(153, 7)       19.31(125, 1)       19.10( 17, 1)       18.35( 97, 2)
       27.     -1390.    366.      36.06(125, 1)       35.04( 92,24)       34.99(135, 6)       33.80(352, 3)       33.80(352, 4)
       27.      -590.    384.      50.73(153, 2)       49.20( 87,22)       49.20(132,24)       46.34(124, 3)       44.91(117, 6)
       27.      -390.    392.      62.16(117, 6)       61.38(153, 2)       57.68( 87,22)       57.68(132,24)       54.90(146,20)
       27.       610.    293.     114.87( 70, 5)      114.86( 73,23)      114.83( 70, 4)      114.82(133,19)      114.82(151, 7)
       27.      1610.    502.     125.91(144,19)      125.89( 70, 2)      124.31( 63, 1)      123.39(106, 3)      119.14( 77,22)
       27.      2410.    428.      65.32(  3, 7)       55.48(359, 1)       54.49( 70, 6)       52.71(115, 3)       52.71(115,20)
       27.      2610.    489.      77.63(  3, 7)       49.30(114,21)       49.24(114, 5)       47.52(359, 1)       45.53( 77, 4)
       27.      3610.    555.      31.95( 97, 5)       31.95(366, 6)       29.52(  3, 7)       27.32( 77, 4)       26.62( 97, 6)
       27.      4610.    605.      23.03(366, 6)       22.75(114, 4)       20.86( 97, 5)       14.14(  3, 8)       12.35( 40, 5)
       27.      4810.    609.      21.02(114, 4)       20.65(366, 6)       17.15( 97, 5)       13.58(114, 3)       12.20(  3, 8)
       27.      5610.    487.      17.31(115, 6)       17.04(114, 3)       12.34( 92,20)       12.02(110, 4)       11.29(150,22)
      227.      -590.    373.      52.13(127, 3)       47.65(146,20)       47.35(140,24)       46.35(117, 6)       44.54( 39,23)
      227.      2410.    426.      53.34( 91,23)       49.68(115, 5)       49.53(125,19)       48.84(104,21)       48.60( 88, 2)
      227.      4810.    608.      22.47(366, 6)       21.66(114, 4)       21.26( 97, 5)       14.12( 96, 6)       13.46(  3, 8)
      427.      -790.    365.      46.31(127, 3)       40.52( 94, 4)       40.52( 95, 6)       40.52(147, 3)       38.81(137, 6)
      427.      -590.    366.      46.71( 94, 4)       46.71( 95, 6)       46.71(147, 3)       46.70(114,23)       46.57( 77, 3)
      427.      2410.    424.      68.99(115, 5)       67.40( 98, 3)       67.40(134, 6)       59.66(134, 7)       53.21( 91,23)
      427.      4810.    575.      20.57( 97, 5)       19.42(366, 6)       15.92(113,24)       14.55(114, 4)       14.20( 97, 6)
      627.      -790.    360.      40.76(114,23)       40.76( 94, 4)       40.76( 95, 6)       40.76(147, 3)       40.61( 77, 3)
      627.      2410.    408.      64.23(132,19)       63.81( 98, 3)       63.80(134, 6)       61.22(115, 5)       59.64(148, 6)
      627.      4810.    548.      17.07( 97, 6)       17.07(146,18)       16.05( 77, 4)       15.99(109, 1)       15.75(113,24)
      827.      -790.    355.      62.01(137, 5)       56.37(138, 1)       52.06(126, 2)       51.67(149,20)       51.67(153, 5)
      827.      2410.    372.      61.10(106, 1)       61.10( 92, 1)       61.10(122,20)       59.86(132,19)       55.97(148,18)
      827.      4810.    563.      26.95(  3, 7)       19.92( 77, 4)       18.91(114, 5)       15.27( 74, 7)       15.27(122,19)
     1027.     -2390.    339.      22.74(153, 2)       21.59(117, 6)       21.06( 87,22)       20.77(132,24)       19.47( 87, 3)
     1027.     -1390.    346.      30.84( 94, 4)       30.82( 95, 6)       30.82(147, 3)       30.21(114,23)       29.28(128,24)
     1027.      -790.    350.      53.96( 98, 4)       53.89( 97,24)       53.88(153,22)       53.82(151,24)       53.81( 98, 6)
     1027.      -390.    351.      64.47(127, 2)       64.15(114, 6)       61.57(298, 6)       60.97( 98, 5)       58.14( 92, 4)
     1027.       610.    320.      88.06(149, 1)       71.34( 89,21)       70.76( 95, 1)       66.23(134, 1)       65.87( 91,21)
     1027.      1610.    398.     288.80( 74, 4)      255.72( 70, 7)      253.51(151, 8)      236.75(123,22)      226.93(122,18)
     1027.      2410.    363.      57.59(148,18)       56.34( 87, 1)       53.37(134, 4)       51.93( 92, 1)       51.93(106, 1)
     1027.      2610.    365.      54.23(132,19)       51.65(106, 1)       51.65( 92, 1)       51.64(122,20)       49.30(118,24)
     1027.      3610.    422.      24.18(103,19)       23.83(104, 5)       21.32( 92, 2)       20.82( 88,23)       20.59(123,24)
     1027.      4610.    541.      32.82(  3, 7)       20.19( 70, 6)       20.09(114, 5)       18.85(359, 1)       17.89( 77, 4)
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                                              HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
       METERS                                                    VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.        HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
---------------------------------------------------------------------------------------------------------------------------------
     1027.      4810.    548.      30.93(  3, 7)       19.94(114, 5)       19.43( 77, 4)       17.32( 70, 6)       16.09( 74, 7)
     1027.      5610.    600.      12.96( 97, 6)       12.96(146,18)       12.14( 77, 4)       11.27(113,24)        9.77(113,23)
     1227.      -790.    344.      46.83(114, 6)       46.75(127, 2)       44.77(298, 6)       44.32( 98, 5)       44.24( 97,24)
     1227.      2410.    355.      53.29(134, 4)       51.59( 63, 1)       50.81( 87, 1)       48.56( 88,23)       48.15( 93, 6)
     1227.      4810.    585.      29.33(  3, 7)       19.35( 70, 6)       18.61(359, 1)       16.03(114, 5)       15.42(133, 7)
     1427.      -990.    337.      42.76(127, 2)       41.71(114, 6)       41.13( 97,24)       41.04(151,24)       41.02( 98, 6)
     1427.      -790.    338.      45.37( 98, 5)       44.77(114, 6)       44.46( 92, 4)       44.46(123, 2)       44.46(150, 7)
     1427.      2410.    346.      50.62(144,19)       50.37( 63, 1)       47.78( 70, 2)       41.58(106, 3)       41.32(134, 4)
     1427.      4810.    588.      18.28(359, 1)       17.42( 70, 6)       16.80(  3, 7)       15.57( 92, 2)       14.50( 10, 3)
     1627.     -1190.    331.      38.93(127, 2)       38.31( 97,24)       38.17(151,24)       38.15( 98, 6)       36.56(114, 6)
     1627.      -990.    332.      40.77( 98, 5)       40.48(114, 6)       38.80(298, 6)       38.72(127, 2)       38.64( 92, 4)
     1627.      1610.    331.      60.45( 70, 1)       58.74(115,19)       48.02( 82, 4)       44.92(100,20)       44.42(150,23)
     1627.      1810.    331.      67.96(359, 3)       61.57( 93, 4)       55.95( 70, 1)       55.03(153, 3)       50.86(100,20)
     1627.      2010.    332.      92.11(150,19)       83.76( 97, 5)       81.54( 88, 3)       66.91( 94,21)       64.07( 84, 1)
     1627.      2210.    333.      58.59(114, 4)       52.95( 89,20)       52.06( 95, 5)       51.18( 88, 6)       51.08(135,23)
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  1627.      2410.    337.      47.87( 70, 2)      46.96(106, 3)      45.30(144,19)      43.12( 88, 6)      42.93( 77,22)
  1627.      4810.    532.      16.75( 92, 2)      15.20( 90, 4)      15.19(103,19)      13.49(359, 1)      13.14(104, 5)
  1627.      5010.    533.      15.85(359, 1)      15.27( 92, 2)      14.02( 70, 6)      13.87( 90, 4)      12.76( 10, 3)
  1827.     -1390.    325.      35.58( 97,24)      35.40(151,24)      35.36( 98, 6)      35.08(127, 2)      33.10( 98, 4)
  1827.     -1190.    326.      36.98(114, 6)      36.47( 98, 5)      35.55(127, 2)      35.35(298, 6)      33.04( 92, 4)
  1827.      1610.    321.      53.97(115,19)      50.20( 70, 1)      43.28( 92,23)      41.73( 82, 4)      41.04(150,23)
  1827.      5010.    486.      15.55( 92, 2)      15.28(115, 3)      14.77(103,19)      14.14( 90, 4)      13.26(100,22)
  2027.     -2390.    309.      20.67(114,23)      19.88( 94, 4)      19.80( 95, 6)      19.80(147, 3)      18.85( 77, 3)
  2027.     -1390.    320.      33.78(114, 6)      32.99(127, 2)      32.32( 98, 5)      32.22(298, 6)      30.18( 97,24)
  2027.      -390.    322.      66.96( 70, 4)      60.38( 70, 5)      58.55( 83,24)      56.06(127, 1)      52.85( 73,23)
  2027.       610.    317.      81.81(114,23)      73.64( 94, 4)      73.64( 95, 6)      73.64(147, 3)      63.95(125,22)
  2027.      1410.    313.      79.92(104, 5)      77.26(103,19)      59.89( 92, 2)      53.75(115, 3)      53.68(115,20)
  2037.      1231.    311.     119.55(114, 5)     113.21(115, 2)     113.21(115, 4)     113.17( 77, 4)     103.56(  3, 7)
  2027.      1610.    312.      61.31( 70, 6)      50.29(115, 3)      50.27(115,20)      49.89(115,19)      42.78(359, 1)
  2027.      2610.    327.      40.56( 70, 2)      39.43(106, 3)      37.75(144,19)      34.98( 88, 6)      34.80( 77,22)
  2027.      3610.    342.      32.05( 98, 3)      31.11(134, 6)      28.58(115, 5)      23.87(148, 6)      21.58( 81, 5)
  2027.      4610.    440.      18.39(115,22)      14.18(120,22)      13.69(104, 5)      13.13(  2,20)      13.07(114, 2)
  2027.      5010.    469.      15.16(103,19)      15.06(104, 5)      12.17( 92, 2)      11.60(120,22)      11.43(115,22)
  2027.      5610.    515.      12.81(359, 1)      12.60( 92, 2)      11.58( 90, 4)      10.85( 70, 6)      10.82(100,22)
  2227.     -1590.    313.      30.70(127, 2)      30.69(114, 6)      29.21(298, 6)      28.38( 97,24)      28.23( 98, 5)
  2227.       610.    311.      74.58( 98, 4)      74.58(153,22)      71.18( 97,24)      71.18( 98, 6)      71.18(151,24)
  2227.       810.    310.      87.47(136, 5)      87.47(124, 5)      87.47(153,23)      79.04(123, 4)      73.84( 73,22)
  2227.      1210.    305.     125.38( 87, 1)     122.16(148,18)     121.93(134, 4)     107.67(122,20)     107.67( 92, 1)
  2227.      1410.    305.      61.19(115, 5)      54.03( 91,23)      50.17(125,19)      49.36(134, 6)      49.36( 98, 3)
  2227.      5010.    438.      16.34(115,22)      14.70(120,22)      14.10(104, 5)      13.70(114, 2)      12.83(114, 1)
  2427.     -1590.    309.      30.68( 98, 5)      29.08(114, 6)      28.72( 92, 4)      28.72(123, 2)      28.72(150, 7)
  2427.       410.    307.      54.05(125,20)      52.32(135,21)      52.31( 91,21)      46.82(151, 6)      46.05( 98, 4)
  2427.       610.    304.      66.58( 92, 5)      63.03( 77, 2)      63.03( 94, 3)      62.26( 93, 2)      55.49(109, 6)
  2427.       810.    305.      75.02(136, 5)      75.02(153,23)      75.02(124, 5)      65.70(123, 4)      58.77(359, 2)
  2427.      1210.    305.     108.13( 95, 5)     108.13( 89,20)     106.65(135,23)      92.70( 88, 6)      92.70( 77,22)
  2427.      5010.    426.      18.03(115,22)      14.09(114, 3)      11.76(  2,20)       9.98(  9,23)       9.94(104, 5)
  2627.     -1590.    304.      29.56( 92, 4)      29.56(123, 2)      29.56(150, 7)      29.48( 94, 3)      29.41( 77, 2)
  2627.     -1390.    304.      32.35( 93, 2)      31.87( 92, 5)      28.38( 95, 4)      28.35( 73,22)      28.35( 85, 1)
  2627.      -390.    305.      45.16(151, 7)      45.16(133,19)      41.79( 70, 3)      41.79( 73,21)      30.47( 23, 3)
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                                      HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
        METERS                                              VALUE(DAY,ENDING HOUR)

     X           Y        ELEV.         HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
  2627.      -190.    304.      41.24(134,20)      38.22( 70, 3)      38.22( 73,21)      36.54(140,23)      35.88( 94, 4)
  2627.        10.    305.      46.52(140,23)      43.88(149,19)      41.03(134,20)      38.83(134, 1)      38.51( 77, 3)
  2627.       210.    305.      47.75(134, 1)      44.83(135,21)      44.82( 91,21)      43.52(149,19)      38.84(125,20)
  2627.       410.    305.      48.17( 92, 4)      48.17(123, 2)      48.17(150, 7)      47.70(125,20)      46.30( 77, 2)
  2627.       610.    305.      51.82(123, 4)      48.63(151, 6)      36.01(149,24)      35.70(125,20)      35.09(135,20)
  2627.       810.    305.      66.93(136, 5)      66.92(153,23)      66.92(124, 5)      54.69(123, 4)      50.88(359, 2)
  2627.      1010.    305.      56.34(123,21)      53.23( 89,21)      52.99(359, 5)      52.93( 95, 1)      49.15( 99,21)
  2627.      1210.    305.      72.62( 88, 3)      69.60(150,19)      50.41( 93, 4)      41.46(123,21)      38.88( 94,21)
  2262.       433.    311.      77.23( 77, 3)      70.21(145,19)      67.67(137, 5)      67.35(134,21)      67.35(146,23)
  2627.      5010.    380.      16.35(115,22)      14.04(115, 6)      11.78(  2,20)      11.13(  9,23)      10.03( 92,20)
  2827.     -1390.    301.      31.50( 95, 4)      31.46( 73,22)      31.46( 85, 1)      29.64(109, 4)      28.35( 93, 2)
  2827.     -1190.    302.      32.73(138, 5)      32.73(123, 1)      27.78(109, 4)      27.44(123, 3)      27.44(134,19)
  2827.      -990.    302.      35.73( 73,23)      34.13(123, 3)      34.13(134,19)      32.13( 70, 5)      29.85( 88, 5)
  2827.      -790.    302.      42.68( 70, 4)      39.01( 70, 5)      34.46( 83,24)      32.25( 73,23)      30.49( 92, 3)
  2827.      -590.    303.      36.47(151, 7)      36.47(133,19)      33.03(127, 1)      29.38(133, 6)      28.49( 23, 3)
  2827.      -390.    303.      41.22( 70, 3)      41.22( 73,21)      39.55(151, 7)      39.54(133,19)      32.55(134,20)
  2827.      -190.    303.      37.63(134,20)      34.61(140,23)      31.39(149,19)      30.46( 70, 3)      30.46( 73,21)
  2827.        10.    303.      42.09(149,19)      41.78(140,23)      39.27(134, 1)      32.15( 10, 2)      31.37(134,20)
  2827.      5010.    358.      12.17( 93,22)      12.13( 88, 2)      11.98(104,21)      11.02(114, 4)      10.57(115,22)
  3027.     -2390.    297.      22.76( 97,24)      22.32(151,24)      22.21(127, 2)      22.10( 98, 6)      20.11( 98, 4)
  3027.     -1390.    298.      29.17(109, 4)      25.21(138, 5)      25.20(123, 1)      24.06( 95, 4)      24.02( 73,22)
  3027.      -390.    300.      35.91( 70, 3)      35.91( 73,21)      35.25(134,20)      31.73(151, 7)      31.73(133,19)
  3027.       610.    301.      43.35(123, 4)      37.52(151, 6)      32.04(149,24)      30.54(136, 5)      30.48(153,23)
  3027.      1610.    302.      40.65( 63, 1)      37.81(144,19)      30.89(134, 4)      29.51( 70, 2)      28.28(115,19)
  3027.      2610.    303.      33.40(149,18)      29.25( 84, 1)      25.93(135,23)      25.12(150,19)      21.93(139, 6)
  3027.      3610.    305.      24.33( 87, 1)      23.26(148,18)      22.04(134, 4)      17.92(120,20)      17.67(150,18)
  3027.      4610.    333.      20.95(115, 5)      19.90( 98, 3)      17.49(134, 6)      16.31(116, 3)      14.51( 59, 1)
  3027.      5010.    348.      14.55( 88, 2)      14.53(115, 1)      12.27( 91,23)      12.09(108,24)      11.76(366, 6)
  3027.      5610.    372.      17.02(115,22)      11.84( 93,22)      10.59(115, 1)      10.52(114, 4)       9.99(  2,20)
  3227.      5010.    338.      13.93(115, 5)      13.52( 91,23)      12.56(125,19)      12.32( 88, 2)      11.27(116, 3)
  3227.      5210.    345.      13.67( 88, 2)      11.18(108,24)      11.17( 91,23)      10.69(104,21)      10.43(125,19)
  3227.      5610.    362.      14.57(115, 1)      13.62(115,22)      11.08( 92,21)      10.97(366, 6)      10.30( 97, 5)
  3227.      6010.    373.      16.45(115,22)      12.63(115, 1)      10.15(114, 4)       9.69(366, 6)       9.58( 93,22)

* - DENOTES PEAK VALUE
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                                              HIGH FIVE TABLE FOR      8 HOUR AVERAGES

   RECEPTOR COORDINATES                                                 HIGHEST FIVE CONCENTRATIONS
         METERS                                                          VALUE(DAY,ENDING HOUR)

       X            Y        ELEV.         HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------
      -5973.      -2390.      798.       1.31(120,24)      0.84(151,16)      0.75(106, 8)      0.65(114,16)      0.47(137, 8)
      -5973.      -1390.      793.       1.14( 51, 8)      0.90(365,24)      0.89(106, 8)      0.84(103,24)      0.72(114,16)
      -5973.       -390.      781.       3.73(  7,24)      2.39( 77, 8)      1.97( 68, 8)      1.47( 72,24)      1.44(124, 8)
      -5973.        610.      852.       2.21( 74, 8)      2.03( 70,16)      1.66(144,16)      1.55( 77,16)      1.46(104,16)
      -5973.       1610.      731.       1.87( 70,16)      1.78( 70, 8)      1.64( 74, 8)      1.64(149,16)      1.61(135,16)
      -5973.       2610.      730.       2.17( 74, 8)      1.66( 70,16)      1.57(149,16)      1.49( 77,16)      1.45(136,16)
      -5973.       3610.      728.       2.22( 98,24)      1.66(148,16)      1.57(139,24)      1.36( 92, 8)      1.31(149,16)
      -5973.       4610.      747.       2.46( 70, 8)      2.19( 74, 8)      1.48(151, 8)      1.41(218,16)      1.37( 96, 8)
      -5973.       5610.      625.       2.42( 74, 8)      1.33( 96,24)      1.30(140, 8)      1.27(218,16)      1.17(134,16)
      -4973.      -2390.      797.       1.29(114,16)      1.16(106, 8)      0.88(115,16)      0.66(137, 8)      0.65(114, 8)
      -4973.      -1390.      731.       2.68(120,24)      1.86( 74, 8)      1.45(106, 8)      1.35( 55, 8)      1.27(151,16)
      -4973.       -390.      652.       3.16(  7,24)      2.90(365,24)      2.72(106, 8)      2.58(120,24)      2.21(151,16)
      -4973.       1610.      771.       2.42(100,24)      2.42( 70,16)      2.10(107,24)      1.94( 88,16)      1.93( 98,24)
      -4973.       2610.      792.       2.52(148,16)      2.12( 77,16)      2.07(106,16)      2.03(112,24)      1.97(149,16)
      -4973.       3610.      904.       1.69(148,16)      1.60(149,16)      1.52(105,16)      1.52(139,24)      1.46(136,16)
      -4973.       4610.      858.       1.74(129,24)      1.69(134,16)      1.59(132,16)      1.55(135,16)      1.30(150,16)
      -4973.       5610.      570.       1.66(150,16)      1.40( 74, 8)      1.33( 96,24)      1.29(132,16)      1.26(140, 8)
      -4773.        410.      646.      10.99( 77,16)      9.80(106,16)      8.82(137,16)      7.88(144,16)      7.83(148,16)
      -4773.        610.      669.      10.49( 70, 8)      9.29(100,24)      9.08(105,16)      9.07( 74, 8)      8.92( 96, 8)
      -4773.        810.      666.       8.21(132,16)      7.93(150,16)      7.75( 74, 8)      7.55(112,16)      6.98(133,16)
      -4773.       1010.      695.       9.63( 74, 8)      6.31(150,16)      4.93(147,16)      4.90(133,16)      4.80(132,24)
      -4773.       1210.      730.       3.67(100,24)      3.03(107,24)      3.00( 77, 8)      2.73(147,16)      2.72( 82, 8)
      -4773.       1210.      730.       3.67(100,24)      3.03(107,24)      3.00( 77, 8)      2.73(147,16)      2.72( 82, 8)
      -4573.        410.      633.      22.45(113,16)     21.37( 72,24)     18.80(123,16)     17.47(106,16)     17.20(122,16)
      -4573.       1210.      722.       3.10( 92,16)      3.07(  5,24)      3.03( 37,24)      2.94(134,16)      2.72( 39,16)
      -4573.       4810.      853.       1.86(150,16)      1.79(132,16)      1.59(120,24)      1.46(135,16)      1.43(134,16)
      -4373.         10.      609.      15.88(107, 8)     15.69(  1,16)     15.19(365,24)     13.58( 50, 8)     13.56(  1,24)
      -4373.        210.      554.       7.43( 77, 8)      5.43( 72,24)      5.40(107, 8)      5.13(354, 8)      3.26( 43, 8)
      -4373.        410.      583.      16.22( 75,16)     15.73( 69,16)     13.87( 67,16)     11.73( 76,16)      9.46( 78,16)
      -4373.       1410.      694.       2.92( 73, 8)      2.87( 70,16)      2.73(121,16)      2.65( 38, 8)      2.62(  8,16)
      -4373.       1610.      756.       3.15( 70,16)      2.55( 73, 8)      2.40(144,16)      2.33(104,16)      2.27( 92,24)
      -4373.       1610.      756.       3.15( 70,16)      2.55( 73, 8)      2.40(144,16)      2.33(104,16)      2.27( 92,24)
      -4373.       4810.      856.       2.15(150,16)      1.78(132,16)      1.53(133,16)      1.41(120,24)      1.41(135,16)
      -4173.         10.      553.       7.43(  1,16)      5.60(107, 8)      4.42( 77, 8)      4.12(  7,24)      3.44( 27,24)
      -4173.       1610.      787.       3.58( 70,16)      2.82( 74, 8)      2.79(109,16)      2.71(144,16)      2.55( 68,24)
      -4173.       4810.      828.       2.40(150,16)      1.83(132,24)      1.70(132,16)      1.67(133,16)      1.59(145,24)
      -3973.      -2390.      767.       1.62( 23, 8)      1.51(114,16)      1.30( 74, 8)      1.00( 78, 8)      0.96( 73,24)
      -3973.      -1390.      732.       2.91(117, 8)      2.28(114,16)      2.10( 23, 8)      1.97( 55,24)      1.94(  1,24)
      -3973.       -390.      548.       6.75( 96,24)      3.50( 46, 8)      2.95(130,16)      2.88(149, 8)      2.69(142,16)
      -3973.         10.      549.      14.91( 20, 8)     12.77( 12, 8)     11.61( 16, 8)     10.62(  2, 8)      9.95( 25, 8)
      -3973.        610.      722.      12.41( 37,24)     10.72( 28,24)     10.36(108,24)     10.02( 29,16)      9.41( 51, 8)
      -3973.       1610.      773.       4.12( 70,16)      3.54( 84,24)      3.15( 74, 8)      3.09(144,16)      3.08(120,24)
      -3973.       2610.      875.       3.74(139,24)      3.59(148,16)      2.99(123,16)      2.89(106,16)      2.74(149,16)
      -3973.       3610.      914.       2.82(134,16)      2.79(129,24)      2.53(132,16)      2.52(135,16)      2.03(149,16)
      -3973.       4610.      954.       2.09(132,24)      1.85(133,16)      1.84(132,16)      1.76(145,24)      1.75(150,16)
      -3973.       4810.      838.       2.53(150,16)      2.19(132,24)      1.79(133,16)      1.65(145,24)      1.57(132,16)
      -3973.       5610.      686.       2.14( 74, 8)      1.49(150,16)      1.28(100,24)      1.28(133,16)      1.17(147,16)
      -3773.         10.      549.       7.10(149, 8)      6.23(  4, 8)      5.88( 34,24)      4.42(  7,24)      4.14( 18, 8)
      -3773.       1610.      755.       4.65( 70,16)      3.48(144,16)      3.06( 68,24)      3.05( 74, 8)      2.94(111,16)
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                                              HIGH FIVE TABLE FOR      8 HOUR AVERAGES (CONT.)

   RECEPTOR COORDINATES                                                 HIGHEST FIVE CONCENTRATIONS
         METERS                                                          VALUE(DAY,ENDING HOUR)

       X            Y        ELEV.         HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------
      -3773.       1810.      792.       4.56( 70,16)      3.80( 68,24)      3.53(144,16)      3.18( 77,16)      2.97(149,16)
      -3773.       2010.      824.       3.81( 70,16)      3.64( 77,16)      3.51(106,16)      3.43(148,16)      3.42(149,16)
      -3773.       4810.      839.       2.47(150,16)      2.18(132,24)      1.85(133,16)      1.53(147,16)      1.52(126,16)
      -3573.         10.      549.       8.10(149, 8)      7.39(  7,24)      7.05(107, 8)      4.02( 68, 8)      3.07( 33,24)
      -3573.       2010.      848.       4.35(148,16)      4.14( 77,16)      4.13(106,16)      4.04(149,16)      3.90( 70,16)
      -3573.       4810.      852.       2.24(150,16)      1.80(133,16)      1.77(132,24)      1.55(147,16)      1.50(126,16)
      -3373.         10.      549.       8.00(149, 8)      4.85( 96,24)      4.28(103,24)      4.25(146,16)      3.61( 73,16)
      -3373.       2010.      799.       5.42(148,16)      4.85(106,16)      4.62( 77,16)      4.56(149,16)      3.99(144,16)
      -3373.       4810.      831.       2.04(100,24)      1.90(150,16)      1.62(133,16)      1.57(134,16)      1.51(147,16)
   -3273.      2010.     787.       6.01(148,16)        5.23(106,16)        4.83( 77,16)        4.75(149,16)        4.21(144,16)
   -3273.      2210.     841.       6.12( 98,24)        5.89(148,16)        5.79(139,24)        4.77(106,16)        4.24(149,16)
   -3273.      2410.     862.       4.97(139,24)        4.82(148,16)        4.19(146,24)        4.02(149,16)        3.91(124,16)
   -3173.        10.     567.      14.55( 96,24)        9.32( 46, 8)        9.30(102, 8)        5.73(103,24)        5.70(146,16)
   -3173.      2410.     841.       7.81( 96, 8)        4.90(148,16)        4.77(139,24)        4.67(146,24)        4.34(149,16)
   -3173.      4810.     806.       2.26(100,24)        1.82(107,24)        1.67(134,16)        1.58(150,16)        1.55(218,16)
   -2973.     -2390.     661.       4.84( 74, 8)        4.38(  3, 8)        2.31(106, 8)        2.05(352, 8)        1.89(353,24)
   -2973.     -1390.     613.       4.61(352, 8)        3.06(108, 8)        2.93(  3, 8)        2.92( 40, 8)        2.55(146,24)
   -2973.      -390.     609.       8.02(107, 8)        7.48( 74, 8)        6.84(106, 8)        6.07( 61,24)        6.05(  3, 8)
   -2973.        10.     601.       9.85(120,24)        9.76(365,24)        9.76(106, 8)        9.40( 96,24)        8.41(107, 8)
   -2973.       610.     579.      15.46( 72,24)       13.97(106,16)       13.95(124,16)       13.10(152,16)       13.03(137,16)
   -2973.      1610.     823.       7.81( 70,16)        6.05(144,16)        5.78( 77,16)        5.35(106,16)        5.24( 68,24)
   -2973.      2410.     784.      10.65( 70, 8)        7.82( 96, 8)        7.54( 74, 8)        6.64(151, 8)        5.94(122,24)
   -2973.      2610.     786.      11.52( 74, 8)       10.15( 70, 8)        5.54(122,24)        5.42(135,16)        5.26(134,16)
   -2973.      3610.     865.       4.71(150,16)        3.83(132,24)        3.40(133,16)        2.95(126,16)        2.89(132,16)
   -2973.      4610.     770.       2.39(100,24)        1.97( 77, 8)        1.91(107,24)        1.89( 74, 8)        1.87(134,16)
   -2973.      4810.     747.       2.09( 77, 8)        1.90(100,24)        1.74(134,16)        1.70(107,24)        1.63( 95, 8)
   -2973.      5610.     642.       1.58(  5,24)        1.35(271, 8)        1.25( 77, 8)        1.20(134,16)        1.15(148,24)
   -2773.        10.     609.      19.08(114,16)       16.69(  1,24)       15.42( 74, 8)       13.63(  3, 8)       13.06( 64, 8)
   -2773.      2410.     731.      13.88( 70, 8)       12.64( 74, 8)        6.64(135,16)        6.53(151, 8)        6.28(122,24)
   -2773.      4810.     724.       2.15( 77, 8)        1.78(134,16)        1.67(  5,24)        1.55(123,24)        1.52( 95, 8)
   -2573.        10.     587.      26.39(  2,24)       22.58( 69, 8)       22.12( 18, 8)       17.29( 56, 8)       16.85( 51, 8)
   -2573.      2410.     732.      16.82( 74, 8)       10.49( 70, 8)        7.99(132,16)        7.80(135,16)        7.77(129,24)
   -2573.      4810.     713.       2.03(  5,24)        1.76(134,16)        1.58( 77, 8)        1.53(271, 8)        1.51(148,24)
   -2373.        10.     574.      33.17(152,24)       25.42(  3, 8)       21.01(130,16)       20.96(153, 8)       20.38( 79, 8)
   -2373.      2410.     726.      15.46( 74, 8)       10.30(150,16)        8.92(132,16)        8.72(120,24)        8.07(134,16)
   -2373.      4810.     700.       1.85(  5,24)        1.77( 45,24)        1.69(134,16)        1.57( 37,24)        1.54(271, 8)
   -2173.        10.     564.      31.07(146,24)       19.72(148,24)       18.47(130,24)       18.09( 52, 8)       16.93( 20, 8)
   -2173.      2410.     675.      11.96(150,16)       11.89( 74, 8)        9.48(120,24)        9.17(133,16)        8.80(132,16)
   -2173.      4810.     675.       2.46( 84,24)        2.25( 45,24)        1.86( 37,24)        1.62(104, 8)        1.56(134,16)
   -1973.     -2390.     487.       5.91(363,24)        4.57(355, 8)        3.35(351, 8)        3.07(108, 8)        2.85(  4, 8)
   -1973.     -1390.     522.       7.25(351, 8)        5.41(  3, 8)        5.27(108, 8)        4.12(352, 8)        3.85(353,24)
   -1973.      -390.     487.      13.74(  3, 8)       11.29( 74, 8)        8.30(352, 8)        7.65(365, 8)        7.16(117, 8)
   -1973.      -190.     526.      13.04( 74, 8)       12.58(352, 8)       11.66(  3, 8)        9.41( 68, 8)        8.22(148,24)
   -1973.        10.     549.      32.47(119,24)       18.22(120, 8)       17.16(132,24)       13.18( 74, 8)       12.90(123, 8)
   -1973.       210.     549.      21.84(131, 8)       21.48(142, 8)       19.93(142,24)       16.87( 53, 8)       16.45( 51, 8)
   -1973.       410.     547.      38.12(118, 8)       32.93(145, 8)       32.82(100, 8)       31.85(144, 8)       30.37( 89,24)
   -1973.       610.     479.      20.33(149, 8)       16.28( 96,24)       13.51(120,24)       12.83(107, 8)       12.81(139, 8)
   -1973.      1610.     768.      23.74(148,16)       22.91( 70, 8)       20.69(149,16)       20.51( 96, 8)       19.76(106,16)
   -1973.      2410.     675.      11.78(150,16)        9.04( 74, 8)        8.87(133,16)        8.18(147,16)        8.17(126,16)
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                                                    HIGH FIVE TABLE FOR     8 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                 HIGHEST FIVE CONCENTRATIONS
       METERS                                                          VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.         HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
------------------------------------------------------------------------------------------------------------------------------------
   -1973.      2610.     799.       8.61(150,16)        6.65( 98,24)        6.59(132,24)        6.47(147,16)        6.41(133,16)
   -1973.      3610.     696.       3.56(134,16)        3.44( 84,24)        3.14(  5,24)        3.01( 45,24)        2.63(218,16)
   -1973.      4610.     628.       2.55( 84,24)        2.51( 45,24)        2.47(104, 8)        2.11(107,24)        1.90( 75,24)
   -1973.      4810.     646.       2.40(104, 8)        2.24( 84,24)        2.20( 45,24)        1.90( 75,24)        1.64( 76,24)
   -1973.      5610.     597.       3.32(107,24)        1.89(104, 8)        1.66(108, 8)        1.53( 75,24)        1.36( 45,24)
   -1773.      -790.     529.       9.64(351, 8)        8.26(  3, 8)        7.23(108, 8)        6.56(363,24)        6.31(353,24)
   -1773.      -590.     497.      13.09(  3, 8)       10.68( 74, 8)       10.53(351, 8)        9.30(355, 8)        8.68(108, 8)
   -1773.       210.     539.      17.34( 74, 8)       17.13(  3, 8)       15.93(352, 8)       15.82(117, 8)       14.53(131, 8)
   -1773.       410.     491.      24.10(117, 8)       19.18(355, 8)       18.86( 74, 8)       17.78(107, 8)       17.37( 93,24)
   -1773.      2410.     668.       9.73(150,16)        8.74( 74, 8)        8.12(134,16)        7.93( 98,24)        7.67(147,16)
   -1773.      4810.     609.       3.93(107,24)        2.54(104, 8)        1.95(108, 8)        1.94( 45,24)        1.92( 75,24)
   -1573.     -1190.     433.      10.89(363,24)        6.99(364, 8)        6.89(106, 8)        6.75(351, 8)        6.19(108, 8)
   -1573.      -990.     459.      11.75(363,24)        9.76(351, 8)        7.40(364, 8)        6.98(106, 8)        6.59(355, 8)
   -1573.      -790.     482.      12.81(363,24)       10.54(351, 8)        7.86(108, 8)        7.64(364, 8)        6.80(106, 8)
   -1573.      -590.     487.      14.07(363,24)       10.96(351, 8)        9.08(108, 8)        8.03(  3, 8)        7.60(364, 8)
   -1573.      -390.     465.      15.42(363,24)       12.19(351, 8)       11.85(  3, 8)        9.88(108, 8)        9.85( 74, 8)
   -1573.      -190.     475.      18.84(  3, 8)       16.40( 74, 8)       16.10(363,24)       13.76(351, 8)       13.06(355, 8)
   -1573.        10.     505.      20.33(  3, 8)       18.02( 74, 8)       16.56(355, 8)       15.67(351, 8)       14.70(108, 8)
   -1573.       210.     495.      26.61(352, 8)       22.86(  3, 8)       19.50(355, 8)       18.80( 74, 8)       17.80(351, 8)
   -1573.       410.     482.      32.01(355, 8)       26.66(117, 8)       26.48(  3, 8)       26.42(352, 8)       24.63( 74, 8)
   -1573.      2410.     648.       9.27(134,16)        7.97( 77, 8)        7.39(218,16)        7.31( 45,24)        7.19( 38, 8)
   -1573.      4810.     609.       4.49(107,24)        2.09(113,24)        1.96( 38, 8)        1.92(104, 8)        1.80(121,16)
   -1373.     -1190.     427.      11.19(363,24)        8.55(364, 8)        7.74( 85,24)        7.62(106, 8)        6.91( 69, 8)
   -1373.      2410.     609.      13.25(107,24)        9.41( 96, 8)        8.81(104, 8)        8.53(134,16)        7.98( 45,24)
   -1373.      4810.     575.       3.99(107,24)        3.24(113,24)        2.19( 92,24)        2.12(144,24)        1.94( 86,24)
   -1173.     -1190.     423.      10.15(364, 8)        8.66(106, 8)        8.46(363,24)        7.97( 23, 8)        7.60( 69, 8)
   -1173.      -990.     423.      11.41(363,24)       11.07(364, 8)        9.28(106, 8)        8.90( 23, 8)        8.21( 69, 8)
   -1173.      -790.     424.      14.69(363,24)       12.14(364, 8)        9.80( 23, 8)        9.44(106, 8)        8.86( 69, 8)
   -1173.      -590.     425.      18.08(363,24)       13.61(364, 8)       11.04( 23, 8)        9.67( 69, 8)        9.57( 94, 8)
   -1173.      -390.    425.       21.55(363,24)       15.75(364, 8)       12.78( 94, 8)       12.69( 23, 8)       11.20( 85,24)
   -1173.      2410.    610.       16.25(107,24)       13.49( 84,24)       12.76(104, 8)        9.79(113,24)        9.34(121,16)
   -1173.      4810.    555.        3.71(123,24)        3.49(113,24)        2.83(144,24)        2.74(107,24)        2.43(104, 8)
    -973.     -2390.    407.        5.04( 94, 8)        3.46( 23, 8)        3.37(364, 8)        3.14(  2,24)        3.10( 47, 8)
    -973.     -1390.    411.       10.55( 94, 8)        6.01( 23, 8)        5.62(124, 8)        5.50(364, 8)        5.41( 47, 8)
    -973.      -390.    421.       19.35(124, 8)       18.46( 94, 8)       15.72( 23, 8)       15.22(364, 8)       12.53( 69, 8)
    -973.      -190.    423.       23.34(124, 8)       20.87( 94, 8)       19.59( 23, 8)       18.87(364, 8)       16.50(363,24)
    -973.       610.    387.       96.30(150, 8)*      90.78(124, 8)*      77.57(355, 8)       74.79(146,24)       68.98(138, 8)
    -973.      1610.    594.       74.89(114, 8)       49.28(107,24)       47.48( 63, 8)       46.63(104, 8)       42.96( 78,24)
    -973.      2410.    610.       23.76(114, 8)       14.60(107,24)       12.39( 41, 8)       11.40( 84,24)       11.24(113,24)
    -973.      2610.    609.       18.18(114, 8)       11.00(107,24)        9.74( 84,24)        9.64(113,24)        9.45( 41, 8)
    -973.      3610.    609.        5.03( 84,24)        4.73(113,24)        4.46(107,24)        4.19(104, 8)        4.04(144,24)
    -973.      4610.    551.        3.26(107,24)        3.06(123,24)        2.85(104, 8)        2.85(144,24)        2.62(113,24)
    -973.      4810.    549.        2.96(107,24)        2.74(123,24)        2.67(144,24)        2.57(104, 8)        2.39(100,24)
    -973.      5610.    549.        1.97(104, 8)        1.91(144,24)        1.89(123,24)        1.77(  4,24)        1.76(107,24)
    -773.      -190.    420.       31.14(124, 8)       27.58( 97, 8)       21.27( 94, 8)       18.04(136, 8)       17.02(352, 8)
    -773.      2010.    603.       45.92(114, 8)       23.20(  3, 8)       22.56( 41, 8)       19.68( 63, 8)       18.71( 97, 8)
    -773.      2210.    610.       37.74(114, 8)       18.63( 41, 8)       15.83( 97, 8)       15.64(  3, 8)       14.24( 84,24)
    -773.      2410.    610.       27.30(114, 8)       15.77( 41, 8)       11.79( 97, 8)       11.77( 84,24)       10.15(366, 8)
    -773.      4810.    549.        3.43( 81,24)        3.24(100,24)        3.19( 84,24)        3.15(107,24)        2.64(114, 8)
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                                              HIGH FIVE TABLE FOR     8 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                   HIGHEST FIVE CONCENTRATIONS
       METERS                                                             VALUE(DAY,ENDING HOUR)

     X              Y        ELEV.         HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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    -573.      -190.    417.       41.53(124, 8)       27.71( 97, 8)       24.16(152,24)       22.87(138, 8)       21.12(153, 8)
    -573.      2010.    593.       40.38(114, 8)       22.27(  3, 8)       21.83( 63, 8)       18.25( 62, 8)       18.18( 62,24)
    -573.      2210.    609.       39.36(114, 8)       18.91(  3, 8)       15.43( 63, 8)       15.13( 97, 8)       13.81(133, 8)
    -573.      2410.    610.       36.26(114, 8)       16.30(  3, 8)       13.24( 97, 8)       10.96( 41, 8)       10.71( 63, 8)
    -573.      4810.    572.        6.40(114, 8)        3.56( 84,24)        3.04(100,24)        2.66(107,24)        2.60(120,24)
    -373.      -390.    410.       24.51( 97, 8)       20.07(124, 8)       20.03(117, 8)       19.89(153, 8)       19.87(138, 8)
    -373.      -190.    418.       29.53( 97, 8)       24.73(352, 8)       24.30(138, 8)       23.38(124, 8)       22.54(153, 8)
    -373.      2010.    564.       20.41( 63, 8)       19.53( 62,24)       17.24( 62, 8)       16.66(  3, 8)       15.37( 90, 8)
    -373.      2210.    594.       17.93( 63, 8)       16.40(  3, 8)       15.93( 97, 8)       14.95( 62,24)       14.28(114, 8)
    -373.      2410.    599.       15.81(114, 8)       15.43(  3, 8)       14.03( 97, 8)       12.72( 63, 8)       11.75(133, 8)
    -373.      4810.    598.        8.15(114, 8)        2.85(120,24)        2.75( 84,24)        2.59( 78,24)        2.49( 41, 8)
    -173.      -390.    402.       20.14(117, 8)       19.56( 97, 8)       19.54(352, 8)       19.54(128,24)       19.06(138, 8)
    -173.      2410.    502.       21.21(115, 8)       14.18( 63, 8)       12.40( 62,24)       12.26( 62, 8)       12.19( 74, 8)
    -173.      4810.    609.        9.01(114, 8)        2.54( 41, 8)        2.26(120,24)        1.83( 84,24)        1.73(366, 8)
      27.     -2390.    366.        5.31( 97, 8)        5.06(195, 8)        3.84(124,24)        3.69(355, 8)        3.58(  3, 8)
      27.     -1390.    366.       13.53( 97, 8)       10.53(352, 8)        9.51(124, 8)        9.09(138, 8)        7.81(195, 8)
      27.      -590.    384.       17.66(124, 8)       17.41(117, 8)       17.04(146,24)       16.39(128,24)       15.59(153, 8)
      27.      -390.    392.       26.70(150, 8)       26.49(146,24)       22.13(124, 8)       21.25(117, 8)       19.95(153, 8)
      27.       610.    293.       44.72( 70, 8)       43.83( 73,24)       31.81(129, 8)       31.62(134,24)       31.21(133, 8)
      27.      1610.    502.       41.06(134, 8)       32.31(150,24)       26.11( 84, 8)       24.93(120,24)       23.74(121, 8)
      27.      2410.    428.       16.82(115,24)       12.88(115, 8)       11.12( 90, 8)       10.98( 63, 8)       10.77(133, 8)
      27.      2610.    489.       17.71(115, 8)       10.69( 74, 8)       10.69( 63, 8)       10.20(  3, 8)       10.15(133, 8)
      27.      3610.    555.        7.32( 97, 8)        6.98(114, 8)        6.01(  3, 8)        4.85( 77, 8)        4.64( 79,24)
      27.      4610.    605.        5.25(114, 8)        3.34(366, 8)        3.15( 97, 8)        2.73( 41, 8)        2.38(  3, 8)
      27.      4810.    609.        5.84(114, 8)        3.04(366, 8)        2.55( 41, 8)        2.45( 97, 8)        2.36(  3, 8)
      27.      5610.    487.        5.76(114, 8)        2.93(115, 8)        2.87(172,24)        2.44( 92,24)        2.42(109,24)
     227.      -590.    373.       24.74(150, 8)       24.61(146,24)       18.61(137, 8)       15.74(117, 8)       15.66(153, 8)
     227.      2410.    426.       11.90( 91,24)       10.86(115, 8)       10.76(140, 8)       10.40(134, 8)       10.09(103,24)
     227.      4810.    608.        3.63( 97, 8)        3.55(114, 8)        3.30(366, 8)        2.36(351,24)        2.26( 41, 8)
     427.      -790.    365.       23.10(150, 8)       20.86(146,24)       15.88(137, 8)       13.92(126, 8)       13.44(147,24)
     427.      -590.    366.       31.39(150, 8)       23.62(137, 8)       21.46(146,24)       21.35(126, 8)       17.31(147,24)
     427.      2410.    424.       17.82(134, 8)       11.74(115, 8)       11.70( 91,24)       11.33( 62,24)       10.15(120,24)
     427.      4810.    575.        4.35( 97, 8)        2.99(366, 8)        2.86(114, 8)        2.84(351,24)        2.83( 79,24)
     627.      -790.    360.       26.97(150, 8)       19.27(137, 8)       18.57(126, 8)       16.20(146,24)       14.31(147,24)
     627.      2410.    408.       20.85(134, 8)       15.27(120,24)       13.13(115, 8)       12.04( 62,24)       11.20(132,24)
     627.      4810.    548.        3.52( 97, 8)        3.01( 79,24)        2.94(114, 8)        2.57( 62,24)        2.45(  3, 8)
     827.      -790.    355.       25.28(126, 8)       25.21(137, 8)       23.43(150, 8)       21.19(146,24)       20.50(152, 8)
     827.      2410.    372.       18.95(134, 8)       16.87(120,24)       12.88(150,24)        9.20(118,24)        9.02( 86,24)
     827.      4810.    563.        3.85(  3, 8)        3.63(114, 8)        2.71(107,24)        2.66( 62,24)        2.59( 63, 8)
    1027.     -2390.    339.        6.09(153, 8)        5.95(135, 8)        5.63(117, 8)        5.45(124, 8)        4.99(146,24)
    1027.     -1390.    346.       17.96(150, 8)       11.24(146,24)       10.90(126, 8)        9.95(137, 8)        9.10(147,24)
    1027.      -790.    350.       24.59(152, 8)       23.39(126, 8)       23.25(137, 8)       23.00(150, 8)       19.31(127, 8)
    1027.      -390.    351.       22.59(152, 8)       22.16( 98, 8)       20.38(119,24)       17.15( 87, 8)       16.91(132,24)
    1027.       610.    320.       18.77( 95, 8)       18.04( 89,24)       16.54(149,24)       16.44(123,24)       16.27(140, 8)
    1027.      1610.    398.       75.63( 70, 8)       43.88( 74, 8)       37.04(140, 8)       36.34(123,24)       35.26(151, 8)
    1027.      2410.    363.       15.73(150,24)       15.55(134, 8)       14.23(120,24)        9.55(122,24)        8.00(148,24)
    1027.      2610.    365.       15.41(134, 8)       13.92(150,24)       13.08(120,24)        9.02( 62,24)        8.69(118,24)
    1027.      3610.    422.        5.09(115,24)        4.76(173, 8)        4.69(172,24)        4.60( 86,24)        4.58(107,24)
    1027.      4610.    541.        4.55( 81,24)        4.36(  3, 8)        3.75(114, 8)        3.65(133, 8)        2.77( 63, 8)
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                                  HIGH FIVE TABLE FOR     8 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
       METERS                                                 VALUE(DAY,ENDING HOUR)

    X            Y       ELEV.        HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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    1027.      4810.    548.       4.17( 81,24)       4.15(  3, 8)       3.70(114, 8)       2.88(133, 8)       2.79(116,24)
    1027.      5610.    600.       2.85(113,24)       2.25( 97, 8)       2.19(114, 8)       2.03( 62,24)       1.76(116,24)
    1227.      -790.    344.      25.00(152, 8)      18.22(137, 8)      17.77(150, 8)      17.39(127, 8)      17.01( 98, 8)
    1227.      2410.    355.      13.62(134, 8)      11.60( 86,24)      10.82(150,24)       9.23(120,24)       9.21( 63, 8)
    1227.      4810.    585.       3.90(  3, 8)       3.48(133, 8)       3.10(114, 8)       2.57( 63, 8)       2.42( 70, 8)
    1427.      -990.    337.      21.49(152, 8)      16.21( 98, 8)      16.08(137, 8)      15.37(127, 8)      13.87(150, 8)
    1427.      -790.    338.      17.28( 98, 8)      17.24(152, 8)      15.35(119,24)      13.76(136, 8)      12.80(132,24)
    1427.      2410.    346.      12.28(134, 8)       9.54(104, 8)       9.18(144,24)       9.05( 63, 8)       7.07( 90, 8)
    1427.      4810.    588.       3.17(133, 8)       2.73( 63, 8)       2.72(104, 8)       2.34(  3, 8)       2.31(359, 8)
    1627.     -1190.    331.      18.50(152, 8)      15.31( 98, 8)      14.25(137, 8)      13.76(127, 8)      12.40(148,24)
    1627.      -990.    332.      16.22( 98, 8)      15.51(152, 8)      14.35(136, 8)      13.29(119,24)      11.93(132,24)
    1627.      1610.    331.      15.27( 91,24)      14.36( 70, 8)      13.76( 89,24)      13.37(114, 8)      12.85(100,24)
    1627.      1810.    331.      21.91(122, 8)      15.28( 89,24)      14.41(359, 8)      13.63( 70, 8)      13.09( 91,24)
    1627.      2010.    332.      17.79(122, 8)      15.48(150,24)      14.42( 97, 8)      13.36( 94,24)      12.85( 88, 8)
    1627.      2210.    333.      14.38(115, 8)      13.08(114, 8)      11.31(134, 8)      11.31( 41, 8)      10.54(366, 8)
    1627.      2410.    337.      11.02(134, 8)      10.25(114, 8)       9.54(115, 8)       7.64( 41, 8)       7.25(106, 8)
    1627.      4810.    532.       2.72( 90, 8)       2.59( 81,24)       2.58(104, 8)       2.51( 63, 8)       2.34(133, 8)
    1627.      5010.    533.       2.77( 90, 8)       2.73( 81,24)       2.73(133, 8)       2.46( 63, 8)       2.00(359, 8)
    1827.     -1390.    325.      15.96(152, 8)      13.66( 98, 8)      12.69(137, 8)      12.38(127, 8)      11.23(148,24)
    1827.     -1190.    326.      13.99(152, 8)      13.59( 98, 8)      11.39(119,24)      10.56(137, 8)      10.17(136, 8)
    1827.      1610.    321.      15.58(115,24)      14.23(115, 8)      13.85(150,24)      11.73( 89,24)      11.57(116, 8)
    1827.      5010.    486.       3.21(172,24)       3.12(173, 8)       3.03(115, 8)       2.81( 81,24)       2.45( 90, 8)
    2027.     -2390.    309.      11.64(150, 8)       7.56(126, 8)       5.70(146,24)       5.54(147,24)       5.51(148,24)
    2027.     -1390.    320.      12.62(152, 8)      11.61( 98, 8)       9.90(137, 8)       9.63(119,24)       8.80(132,24)
    2027.      -390.    322.      17.50( 70, 8)      16.60(127, 8)      12.72( 73,24)      12.45(123, 8)      12.41(109, 8)
    2027.       610.    317.      37.10(150, 8)      32.05( 95, 8)      30.21(151, 8)      28.26(126, 8)      27.09( 94, 8)
    2027.      1410.    313.      31.07(115, 8)      25.36(115,24)      22.72(114, 8)      17.90(104, 8)      17.48( 89,24)
    2037.      1231.    311.      57.48(115, 8)      38.51(115,24)      31.82(114, 8)      31.75(134, 8)      27.45(116, 8)
    2027.      1610.    312.      22.83(115,24)      19.56(115, 8)      16.72( 70, 8)      15.85(114, 8)      13.34(133, 8)
    2027.      2610.    327.       8.26(116, 8)       8.18(134, 8)       6.37(114, 8)       6.14(115, 8)       6.14(115,24)
    2027.      3610.    342.       7.48(115, 8)       7.19(134, 8)       6.60(114, 8)       4.38( 62,24)       4.08(120,24)
    2027.      4610.    440.       4.86(114, 8)       3.54(115,24)       3.31(172,24)       3.27(173, 8)       2.74( 81,24)
    2027.      5010.    469.       3.78(114, 8)       3.36(115,24)       3.09(172,24)       3.09(173, 8)       2.62( 81,24)
    2027.      5610.    515.       3.14( 81,24)       2.53(114, 8)       2.22(133, 8)       2.21( 90, 8)       1.84( 63, 8)
    2227.     -1590.    313.      11.37(152, 8)      10.67( 98, 8)       9.37(137, 8)       8.26(127, 8)       8.01(119,24)
    2227.       610.    311.      38.22(127, 8)      34.57(137, 8)      33.36(151, 8)      29.87(126, 8)      28.38(146,24)
    2227.       810.    310.      29.02(149,24)      27.78(123, 8)      26.08( 95, 8)      24.89(359, 8)      23.96(109, 8)
    2227.      1210.    305.      36.75(134, 8)      28.75(120,24)      22.04(150,24)      20.43(122,24)      19.56(106, 8)
    2227.      1410.    305.      17.77(134, 8)      14.84(115, 8)      14.19( 89,24)      14.02(115,24)      13.22( 91,24)
    2227.      5010.    438.       5.23(114, 8)       3.37(115,24)       3.04(173, 8)       2.99(172,24)       2.12( 81,24)
    2427.     -1590.    309.       9.51(119,24)       8.92(152, 8)       8.69( 98, 8)       8.52(136, 8)       8.13(132,24)
    2427.       410.    307.      20.78(127, 8)      20.75(137, 8)      19.55(151, 8)      19.40( 95, 8)      19.36(123, 8)
    2427.       610.    304.      26.06(123, 8)      20.49( 92, 8)      20.33(149,24)      20.20(109, 8)      18.01(136, 8)
    2427.       810.    305.      23.51(123, 8)      18.97( 70, 8)      18.62(149,24)      18.60(359, 8)      15.91( 99,24)
    2427.      1210.    305.      24.21( 89,24)      18.29( 95, 8)      16.54( 88, 8)      16.31( 77,24)      15.97(135,24)
    2427.      5010.    426.       4.54(114, 8)       3.39(115,24)       2.97(173, 8)       2.89(172,24)       2.72(115, 8)
    2627.     -1590.    304.       9.40(119,24)       8.21(132,24)       7.99(136, 8)       7.40( 92, 8)       7.36(152, 8)
    2627.     -1390.    304.       7.79(109, 8)       7.09(150, 8)       6.84(132,24)       6.77( 92, 8)       6.39( 85, 8)
    2627.      -390.    305.      12.41(127, 8)      10.83(153, 8)      10.31(146,24)       9.84(134,24)       9.78(133,24)
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                                  HIGH FIVE TABLE FOR     8 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
       METERS                                                 VALUE(DAY,ENDING HOUR)

    X            Y       ELEV.        HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
----------------------------------------------------------------------------------------------------------------------------------
    2627.      -190.    304.      17.65(150, 8)      14.29(146,24)      14.27(137, 8)      13.81(126, 8)      13.23(127, 8)
    2627.        10.    305.      20.47(150, 8)      16.28(134,24)      14.62(137, 8)      14.61(152, 8)      14.53(127, 8)
    2627.       210.    305.      16.67(152, 8)      16.46(149,24)      16.45(127, 8)      15.78(137, 8)      14.70(151, 8)
    2627.       410.    305.      16.31(123, 8)      14.68(136, 8)      14.41(149,24)      14.26( 92, 8)      13.32( 95, 8)
    2627.       610.    305.      18.81(123, 8)      14.09( 70, 8)      12.93(149,24)      12.23(359, 8)      10.84( 73,24)
    2627.       810.    305.      15.74(359, 8)      14.18( 99,24)      13.65(149,24)      13.38(123, 8)      12.49(141, 8)
    2627.      1010.    305.      17.40( 89,24)      14.77( 99,24)      13.13(141, 8)      12.73(359, 8)      12.59(118, 8)
    2627.      1210.    305.      14.39(122, 8)      13.22( 88, 8)      12.90( 89,24)      12.32(150,24)      11.79(359, 8)
    2262.       433.    311.      43.74(150, 8)      42.40(137, 8)      38.65(146,24)      37.49(127, 8)      36.90(152, 8)
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2627.	5010.	380.	3.88(115, 8)	3.13(115,24)	2.99(114, 8)	2.90(173, 8)	2.80(172,24)
2827.	-1390.	301.	7.75(109, 8)	6.04(85, 8)	5.96(137, 8)	5.92(138, 8)	5.49(95, 8)
2827.	-1190.	302.	8.74(123, 8)	8.19(138, 8)	7.52(109, 8)	6.53(134,24)	6.09(81, 8)
2827.	-990.	302.	8.90(123, 8)	8.39(109, 8)	7.78(134,24)	7.59(138, 8)	7.43(70, 8)
2827.	-790.	302.	10.54(70, 8)	8.95(127, 8)	7.06(134,24)	6.71(146,24)	6.47(109, 8)
2827.	-590.	303.	12.44(127, 8)	8.99(146,24)	8.90(70, 8)	8.28(137, 8)	7.61(151, 8)
2827.	-390.	303.	13.63(150, 8)	11.93(127, 8)	11.76(151, 8)	10.65(126, 8)	10.35(146,24)
2827.	-190.	303.	15.64(150, 8)	12.72(152, 8)	12.35(127, 8)	11.77(137, 8)	11.60(134,24)
2827.	10.	303.	13.32(152, 8)	12.63(127, 8)	12.41(137, 8)	12.17(149,24)	11.29(151, 8)
2827.	5010.	358.	3.73(115, 8)	2.65(173, 8)	2.63(114, 8)	2.55(92,24)	2.55(172,24)
3027.	-2390.	297.	7.46(137, 8)	7.44(152, 8)	7.07(98, 8)	6.67(127, 8)	5.86(135, 8)
3027.	-1390.	298.	6.94(109, 8)	6.32(138, 8)	6.27(123, 8)	5.76(117, 8)	5.41(137, 8)
3027.	-390.	300.	12.01(150, 8)	11.40(127, 8)	10.85(151, 8)	10.50(152, 8)	9.54(137, 8)
3027.	610.	301.	9.81(149,24)	8.66(359, 8)	8.45(123, 8)	8.15(135,24)	7.65(141, 8)
3027.	1610.	302.	8.71(89,24)	8.29(134, 8)	7.73(150,24)	7.65(144,24)	6.05(115,24)
3027.	2610.	303.	5.31(84, 8)	4.40(103,24)	4.29(134, 8)	4.18(149,24)	4.09(150,24)
3027.	3610.	305.	5.19(115, 8)	5.17(134, 8)	4.46(120,24)	3.94(150,24)	3.61(122,24)
3027.	4610.	333.	5.23(115, 8)	3.95(134, 8)	3.37(116, 8)	2.50(62,24)	2.49(98, 8)
3027.	5010.	348.	4.16(115, 8)	2.48(92,24)	2.44(91,24)	2.42(173, 8)	2.30(172,24)
3027.	5610.	372.	3.30(115, 8)	3.29(115,24)	2.66(173, 8)	2.46(172,24)	2.39(92,24)
3227.	5010.	338.	3.87(115, 8)	2.70(116, 8)	2.55(91,24)	2.32(134, 8)	2.22(173, 8)
3227.	5210.	345.	3.30(115, 8)	2.30(173, 8)	2.23(91,24)	2.15(172,24)	2.13(108,24)
3227.	5610.	362.	3.17(115, 8)	3.15(115,24)	2.52(173, 8)	2.39(92,24)	2.32(172,24)
3227.	6010.	373.	3.25(115,24)	3.19(115, 8)	2.53(173, 8)	2.30(92,24)	2.29(172,24)

* - DENOTES PEAK VALUE

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          POSTZ              (DATED 86224)
1                                                                                    POSTZ - PAGE NO.   1


                                  POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

          POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - CO - 04/20/92 - MPV
          SHORTZ RUN TITLE:  ********************************************************************************

          ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                        0
          ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                  0
          ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                    0
          ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)         0
          ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                   0

     1-HOUR AVERAGE ANALYSIS:
          ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
          ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

     3-HOUR AVERAGE ANALYSIS:
          ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
          ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

     8-HOUR AVERAGE ANALYSIS:
          ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      1
          ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

     24-HOUR AVERAGE ANALYSIS:
          ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

     ANNUAL AVERAGE ANALYSIS:
          ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

     USER-SPECIFIED AVERAGING TIME ANALYSIS
          ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                      0
          ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                  0

          ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                           0
          ISW(25) CALMS POLICY (1=YES,0=NO)                                               0


          JULIAN DAY FOR START OF ANALYSIS                                                1
          YEAR FOR START OF ANALYSIS                                                     91
          JULIAN DAY FOR END OF ANALYSIS                                                  5
          YEAR FOR END OF ANALYSIS                                                       92
1                                                                                    POSTZ - PAGE NO.   2


                                     HIGH FIVE TABLE FOR      1 HOUR AVERAGES

 RECEPTOR COORDINATES                                  HIGHEST FIVE CONCENTRATIONS
      METERS                                             VALUE(DAY,ENDING HOUR)

    X            Y      ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
---------------------------------------------------------------------------------------------------------------------------
   -1973.       10.    549.      60.92( 59, 2)      54.95(352, 1)      54.59(  3, 1)      53.78(132,23)      53.36( 74, 3)
   -1973.      110.    549.      73.00(117, 7)      63.25( 51, 3)      58.71( 51,23)      58.47( 78, 4)      57.71(101, 1)
   -1973.      210.    549.      92.84(117, 7)      72.35( 59,24)      70.04( 53, 1)      68.73( 78, 5)      67.50(133, 5)
   -1973.      310.    548.     101.57(146, 2)      99.59(102, 6)      99.26(144,21)      98.91(117, 7)      98.77(127,24)
   -1973.      410.    547.     133.40( 60,22)     129.06(105,24)*    127.91( 77,21)     127.30(127,23)     125.24(145,20)
   -1873.       10.    548.      58.96(352, 1)      57.27(  3, 1)      55.48( 74, 3)      55.44( 74, 5)      55.41(117, 5)
   -1873.      110.    549.      60.81(  3, 1)      60.36(352, 1)      58.91( 74, 3)      55.29( 74, 5)      53.20( 51, 3)
   -1873.      210.    546.      87.04(117, 7)      70.32( 51, 3)      64.70( 20,20)      63.41(352, 1)      63.29(  3, 1)
   -1873.      310.    534.     112.32( 93,20)     104.78(117, 7)      85.29(117, 3)      83.14( 83, 1)      81.51(128, 5)
   -1873.      410.    512.     118.40( 93,20)     110.81(117, 7)     108.44(120,19)      94.80( 85,22)      81.44(107, 5)
   -1773.       10.    548.      72.89(352, 1)      59.51(  3, 1)      57.93( 74, 5)      57.73(117, 5)      57.72( 74, 3)
   -1773.      110.    549.      65.02(352, 1)      63.05(  3, 1)      61.51( 74, 5)      61.12( 74, 3)      53.99(  3, 5)
   -1773.      210.    539.      67.04(  3, 1)      66.61(352, 1)      65.36( 74, 5)      64.97( 74, 3)      64.86(117, 5)
   -1773.      310.    511.     119.36( 93,20)     104.00(117, 7)      82.00(355, 3)      78.58( 51, 3)      71.55(  3, 1)
   -1773.      410.    491.     125.88( 93,20)     118.82(117, 7)      94.19(114,20)      90.32(355, 3)      87.91(107, 5)
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    -1673.         10.     548.       87.73(351, 5)       69.49(352, 1)       61.68(  3, 1)       60.20(117, 5)       60.15(  3, 5)
    -1673.        110.     543.       92.59(351, 5)       82.68(352, 1)       65.42(  3, 1)       64.19(  3, 5)       63.64( 74, 5)
    -1673.        210.     520.       91.09(351, 5)       72.05(352, 1)       69.73(  3, 1)       68.61(  3, 5)       68.01( 74, 5)
    -1673.        310.     496.      114.29( 93,20)       75.31( 51, 3)       74.65(  3, 1)       74.33(352, 1)       74.02(117, 7)
    -1673.        410.     487.      134.76( 93,20)      124.18(117, 7)       95.86(355, 3)       88.72( 51, 3)       83.93(114,20)
    -1573.         10.     505.       89.97(351, 5)       68.46(355, 4)       66.15(117, 5)       64.61(  3, 1)       63.88( 74, 3)
    -1573.        110.     504.       96.27(351, 5)       79.00( 80,23)       74.90(352, 1)       73.29(355, 4)       68.16(  3, 1)
    -1573.        210.     495.      103.52(351, 5)       95.38(352, 1)       78.85(355, 4)       72.66(  3, 1)       72.38( 80,23)
    -1573.        310.     485.      111.95(351, 5)       85.26(355, 4)       80.81(352, 1)       78.00(  3, 1)       76.84(  3, 5)
    -1573.        410.     482.      137.76( 93,20)*     121.41(351, 5)       97.33(117, 7)       91.19(355, 4)       90.77( 51, 3)
     2127.       1210.     308.      105.93(122,20)      105.93( 92, 1)      105.93(106, 1)      105.84(132,19)       98.76(134, 6)
     2227.       1210.     305.      125.38( 87, 1)      122.16(148,18)      121.93(134, 4)      107.67(122,20)      107.67( 92, 1)
     2327.       1210.     305.      129.63( 70, 2)      127.48(144,19)      113.79(106, 3)      108.72( 63, 1)       86.37( 88, 6)
     2427.       1210.     305.      108.13( 95, 5)      108.13( 89,20)      106.65(135,23)       92.70( 88, 6)       92.70( 77,22)
     2527.       1210.     305.       74.97(149,18)       69.66(150,19)       56.58(135,23)       54.66( 84, 1)       49.46( 88, 3)
     2627.       1210.     305.       72.62( 88, 3)       69.60(150,19)       50.41( 93, 4)       41.46(123,21)       38.88( 94,21)
     2037.       1231.     311.      119.55(114, 5)      113.21(115, 2)      113.21(115, 4)      113.17( 77, 4)      103.56(  3, 7)
     2027.       1310.     313.       71.92(115,22)       68.53( 70, 6)       68.16(104, 5)       60.32( 92,23)       56.37(  3, 7)
     2127.       1310.     307.       82.31(115, 5)       74.35(115, 3)       74.20(115,20)       72.79(134, 6)       72.79( 98, 3)
     2227.       1310.     305.       81.71(134, 6)       81.69( 98, 3)       81.67(132,19)       80.28(115, 5)       76.02(148, 6)
     2327.       1310.     305.       88.93(122,20)       88.93( 92, 1)       88.93(106, 1)       83.88(132,19)       83.77(148,18)
     2427.       1310.     305.       93.54(134, 4)       84.36( 87, 1)       79.38( 63, 1)       69.45(148,18)       60.88(144,19)
     2527.       1310.     305.       85.96( 70, 2)       82.06(144,19)       75.68(106, 3)       66.73( 63, 1)       56.29( 88, 6)
     2627.       1310.     305.       72.22( 95, 5)       72.21( 89,20)       71.72( 88, 6)       71.72( 77,22)       71.69(140,22)
     2027.       1410.     313.       79.92(104, 5)       77.26(103,19)       59.89( 92, 2)       53.75(115, 3)       53.68(115,20)
     2127.       1410.     308.       69.28(114, 5)       68.68(115, 2)       68.68(115, 4)       68.61( 77, 4)       59.48(115,22)
     2227.       1410.     305.       61.19(115, 5)       54.03( 91,23)       50.17(125,19)       49.36(134, 6)       49.36( 98, 3)
     2327.       1410.     305.       69.47(134, 6)       69.43( 98, 3)       68.79(115, 5)       59.09(148, 6)       56.34(132,19)
     2427.       1410.     305.       71.24(132,19)       67.55(122,20)       67.55( 92, 1)       67.55(106, 1)       64.76(118,24)
     2527.       1410.     305.       72.38(148,18)       69.96( 87, 1)       60.65(134, 4)       59.03(122,20)       59.02( 92, 1)
     2627.       1410.     305.       65.40( 63, 1)       61.92(134, 4)       53.79(144,19)       49.39( 87, 1)       38.77( 89,21)

 * - DENOTES PEAK VALUE
1
                                                                                                         POSTZ - PAGE NO.   3


                                             HIGH FIVE TABLE FOR     8 HOUR AVERAGES

 RECEPTOR COORDINATES                                              HIGHEST FIVE CONCENTRATIONS
       METERS                                                       VALUE(DAY,ENDING HOUR)

     X             Y       ELEV.        HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
------------------------------------------------------------------------------------------------------------------------------------
    -1973.         10.     549.       32.47(119,24)       18.22(120, 8)       17.16(132,24)       13.18( 74, 8)       12.90(123, 8)
    -1973.        110.     549.       14.78(106, 8)       14.17(141,24)       13.60(108, 8)       13.44(133, 8)       13.26(142, 8)
    -1973.        210.     549.       21.84(131, 8)       21.48(142, 8)       19.93(142,24)       16.87( 53, 8)       16.45( 51, 8)
    -1973.        310.     548.       27.04(117, 8)       25.47(147, 8)       23.63(101,24)       23.48(127,24)       22.38(128, 8)
    -1973.        410.     547.       38.12(118, 8)       32.93(145, 8)       32.82(100, 8)       31.85(144, 8)       30.37( 89,24)
    -1873.         10.     548.       15.86( 74, 8)       13.96(352, 8)       13.81(  3, 8)       13.03(108, 8)       11.98(109, 8)
    -1873.        110.     549.       16.36(141,24)       15.90( 53, 8)       15.74( 74, 8)       14.78(133, 8)       13.63( 51, 8)
    -1873.        210.     546.       18.70(117, 8)       16.43(131, 8)       16.17(142,24)       15.58(102,24)       14.32(142, 8)
    -1873.        310.     534.       31.68(117, 8)       19.79(127,24)       18.99(147, 8)       18.43(110,24)       18.29(100,24)
    -1873.        410.     512.       26.45(118, 8)       25.64(100, 8)       19.82(144, 8)       19.25(117, 8)       18.02(145, 8)
    -1773.         10.     548.       19.31(352, 8)       18.53(  3, 8)       16.54( 74, 8)       10.92(108, 8)        9.88( 70, 8)
    -1773.        110.     549.       18.70(  3, 8)       17.64(352, 8)       16.86( 74, 8)       14.38(133, 8)       13.42(141,24)
    -1773.        210.     539.       17.34( 74, 8)       17.13(  3, 8)       15.93(352, 8)       15.82(117, 8)       14.53(131, 8)
    -1773.        310.     511.       26.71(117, 8)       18.26(355, 8)       18.20( 74, 8)       15.24( 93,24)       15.15(352, 8)
    -1773.        410.     491.       24.10(117, 8)       19.18(355, 8)       18.86( 74, 8)       17.78(107, 8)       17.37( 93,24)
    -1673.         10.     548.       19.45(  3, 8)       19.03(352, 8)       17.16( 74, 8)       14.52(351, 8)       12.51(108, 8)
    -1673.        110.     543.       23.15(352, 8)       20.61(  3, 8)       17.50( 74, 8)       15.14(351, 8)       12.14(108, 8)
    -1673.        210.     520.       22.28(352, 8)       21.88(  3, 8)       18.05( 74, 8)       14.88(351, 8)       13.66(117, 8)
    -1673.        310.     496.       23.01(  3, 8)       21.66(117, 8)       21.27(352, 8)       20.80(355, 8)       19.40( 74, 8)
    -1673.        410.     487.       25.85(117, 8)       23.65( 74, 8)       22.25(  3, 8)       21.95(355, 8)       19.62(352, 8)
    -1573.         10.     505.       20.33(  3, 8)       18.02( 74, 8)       16.56(355, 8)       15.67(351, 8)       14.70(108, 8)
    -1573.        110.     504.       21.43(  3, 8)       20.80(352, 8)       18.24( 74, 8)       17.98(355, 8)       16.69(351, 8)
    -1573.        210.     495.       26.61(352, 8)       22.86(  3, 8)       19.50(355, 8)       18.80( 74, 8)       17.80(351, 8)
    -1573.        310.     485.       25.80(352, 8)       24.52(  3, 8)       23.49(355, 8)       20.27(108, 8)       20.20( 74, 8)
    -1573.        410.     482.       32.01(355, 8)       26.66(117, 8)       26.48(  3, 8)       26.42(352, 8)       24.63( 74, 8)
     2127.       1210.     308.       40.65(134, 8)       28.16(120,24)       23.87( 91,24)       19.79(150,24)       19.02(106, 8)
     2227.       1210.     305.       36.75(134, 8)       28.75(120,24)       22.04(150,24)       20.43(122,24)       19.56(106, 8)
     2327.       1210.     305.       23.85(134, 8)       21.06( 70, 8)       20.20(106, 8)       19.52(144,24)       18.75( 89,24)
     2427.       1210.     305.       24.21( 89,24)       18.29( 95, 8)       16.54( 88, 8)       16.31( 77,24)       15.97(135,24)
     2527.       1210.     305.       15.05( 89,24)       13.02(150,24)       11.98(134, 8)       11.95( 84, 8)       11.53( 88, 8)
     2627.       1210.     305.       14.39(122, 8)       13.22( 88, 8)       12.90( 89,24)       12.32(150,24)       11.79(359, 8)
     2037.       1231.     311.       57.48(115, 8)*      38.51(115,24)*      31.82(114, 8)       31.75(134, 8)       27.45(116, 8)
     2027.       1310.     313.       35.24(115, 8)       32.61(115,24)       25.70(114, 8)       18.80( 92,24)       18.13(104, 8)
     2127.       1310.     307.       27.96(115, 8)       23.85(134, 8)       23.21(115,24)       17.08( 91,24)       15.59( 89,24)
     2227.       1310.     305.       27.97(134, 8)       17.22(115, 8)       16.09(120,24)       16.05( 91,24)       14.39( 89,24)
     2327.       1310.     305.       27.41(134, 8)       22.60(120,24)       16.90(150,24)       15.71(122,24)       13.79( 89,24)
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      2427.        1310.     305.         22.90(134, 8)         13.98(150,24)         13.83(120,24)         13.57( 89,24)         11.86( 63, 8)
      2527.        1310.     305.         16.09( 89,24)         15.31(134, 8)         14.07( 70, 8)         13.22(106, 8)         13.01(144,24)
      2627.        1310.     305.         20.11( 89,24)         14.27( 95, 8)         13.81( 77,24)         13.33( 88, 8)         11.85(134, 8)
      2027.        1410.     313.         31.07(115, 8)         25.36(115,24)         22.72(114, 8)         17.90(104, 8)         17.48( 89,24)
      2127.        1410.     308.         27.97(115,24)         27.76(115, 8)         15.61( 89,24)         14.40(114, 8)         13.92(116, 8)
      2227.        1410.     305.         17.77(134, 8)         14.84(115, 8)         14.19( 89,24)         14.02(115,24)         13.22( 91,24)
      2327.        1410.     305.         22.58(134, 8)         15.49(115, 8)         13.83( 89,24)         12.71( 91,24)         11.06( 88, 8)
      2427.        1410.     305.         22.74(134, 8)         16.09(120,24)         13.04( 89,24)         12.84(150,24)         11.53(122,24)
      2527.        1410.     305.         19.26(134, 8)         15.44(120,24)         14.00(150,24)         12.53( 89,24)         10.48(122,24)
      2627.        1410.     305.         15.20(134, 8)         12.32( 89,24)         10.01(150,24)          9.48( 63, 8)          9.43(144,24)

 * - DENOTES PEAK VALUE
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1              POSTZ                  (DATED 86224)
                                                                                         POSTZ - PAGE NO.    1


                                      POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                   POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - CO - 04/20/92 - MPV
                   SHORTZ RUN TITLE:  ********************************************************************************

                   ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                           0
                   ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                     0
                   ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                       0
                   ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)            0
                   ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                      0

               1-HOUR AVERAGE ANALYSIS:
                   ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                          1
                   ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                          0
                   ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                      0

               3-HOUR AVERAGE ANALYSIS:
                   ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                          0
                   ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                         0
                   ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

               8-HOUR AVERAGE ANALYSIS:
                   ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         1
                   ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                         0
                   ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

               24-HOUR AVERAGE ANALYSIS:
                   ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         0
                   ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                         0
                   ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

               ANNUAL AVERAGE ANALYSIS:
                   ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         0
                   ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                         0
                   ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

               USER-SPECIFIED AVERAGING TIME ANALYSIS
                   ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         0
                   ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                         0
                   ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

                   ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                              0
                   ISW(25) CALMS POLICY (1=YES,0=NO)                                                  0


                   JULIAN DAY FOR START OF ANALYSIS                                                   1
                   YEAR FOR START OF ANALYSIS                                                        91
                   JULIAN DAY FOR END OF ANALYSIS                                                     5
                   YEAR FOR END OF ANALYSIS                                                          92
1
                                                                                         POSTZ - PAGE NO.    2


                                       HIGH FIVE TABLE FOR      1 HOUR AVERAGES

  RECEPTOR COORDINATES
       METERS                                             HIGHEST FIVE CONCENTRATIONS
                                                           VALUE(DAY,ENDING HOUR)

     X          Y        ELEV.         HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
------------------------------------------------------------------------------------------------------------------------------
   -5973.     -2390.     798.      14.32(120,19)       8.83(151, 9)        7.63(106, 8)        4.80(137, 8)        3.17( 79, 9)
   -5973.     -1390.     793.       8.82( 51, 3)       6.40(103,17)        5.75( 93,17)        5.32(106, 7)        4.80(149, 8)
   -5973.      -390.     781.      34.94(  7,22)      18.43( 68, 6)       14.29( 77, 7)       13.75(124, 8)       10.99( 75, 7)
   -5973.       610.     852.      19.97( 74, 6)       8.63( 92, 8)        7.19(111, 8)        7.00( 80, 8)        6.75( 97,17)
   -5973.      1610.     731.       9.92( 74, 4)       8.74( 70, 7)        7.28( 77,19)        7.08(125,17)        6.88(122,18)
   -5973.      2610.     730.      11.89(135, 8)      11.14( 82, 8)       10.16( 74, 1)        9.30(126, 8)        8.91( 74, 8)
   -5973.      3610.     728.      23.03( 98,19)      14.56( 92, 7)       13.59(139,18)        6.15(148, 9)        5.86( 96, 7)
   -5973.      4610.     747.      23.14( 74, 4)      16.74(151, 8)       15.94( 70, 7)       12.28(140, 8)       11.81( 70, 8)
   -5973.      5610.     625.      21.10( 74, 2)      11.03( 84,23)        9.22(129,18)        9.13(140, 7)        8.40(147, 7)
   -4973.     -2390.     797.      10.42(106, 7)       7.10(137, 8)        6.75(108, 8)        6.16(114, 8)        5.27( 71,16)
   -4973.     -1390.     731.      27.97(120,19)      14.88(106, 8)       13.81( 74, 5)       12.68(151, 9)        8.72( 50, 4)
   -4973.      -390.     652.      31.94(  7,22)      20.65(120,19)       17.68(151, 9)       17.54(117, 7)       16.93( 61,22)
   -4973.      1610.     771.      18.83(100,19)      16.82(107,19)       11.64( 95, 8)       11.48( 77, 6)       10.87( 70, 9)
   -4973.      2610.     792.      18.83(112,19)      18.02(135, 8)       17.54(126, 8)       15.43( 88, 8)       12.32(136, 9)
   -4973.      3610.     904.      14.42(146,17)      14.27( 70, 8)       12.70( 96, 8)       11.61(122,18)       10.37(105,18)
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    -4973.       4610.    858.       13.63(129,18)       11.27(120,18)        9.30( 94,19)        8.42(122,18)        7.27(134, 9)
    -4973.       5610.    570.       11.91(145,18)       10.95(140, 7)        7.75(132,18)        7.26(120,18)        7.03(109, 8)
    -4773.        410.    646.       61.20( 95,19)       47.92(112,19)       42.42(135, 8)       41.95(126, 8)       37.80( 88, 8)
    -4773.        610.    669.       60.07( 74, 4)       54.50(151, 8)       46.77( 70, 7)       45.67( 44, 4)       45.64(100,18)
    -4773.        810.    666.       50.14( 77, 5)       44.22( 74, 6)       40.24(354, 6)       29.51( 44,23)       29.05( 74, 2)
    -4773.       1010.    695.       47.52( 74, 6)       38.63( 74, 1)       38.21( 77, 5)       29.46( 45,24)       29.15(132,18)
    -4773.       1210.    730.       29.36(100,19)       24.21(107,19)       19.45( 82, 7)       16.57(144,17)       16.46( 95, 8)
    -4773.       1210.    730.       29.36(100,19)       24.21(107,19)       19.45( 82, 7)       16.57(144,17)       16.46( 95, 8)
    -4573.        410.    633.      126.89( 98,19)       76.64(123,15)       72.45( 94, 8)       71.49(113, 9)       67.77( 72,21)
    -4573.       1210.    722.       24.56(  5,21)       24.27( 37,22)       18.70(148,17)       17.88(153, 8)       17.36( 74, 6)
    -4573.       4810.    853.       13.73(120,18)        9.17(145,18)        8.79(104, 8)        8.06(109, 8)        7.81( 94,19)
    -4373.         10.    609.      104.43( 50, 4)       75.67( 61,22)       73.28(107, 5)       70.72(  1,16)       67.99(  1,17)
    -4373.        210.    554.       33.64( 77, 5)       30.47( 72,20)       28.81(107, 2)       27.62(354, 6)       25.07( 74, 6)
    -4373.        410.    583.       53.29( 93,19)       48.22( 25,16)       45.34( 74,17)       45.23( 39,14)       44.86( 66,19)
    -4373.       1410.    694.       16.18(104, 4)       14.35( 75,20)       13.58(150,17)       13.10(125,17)       12.98( 77,19)
    -4373.       1610.    756.       15.89( 70, 9)       14.10( 68,20)       13.55( 92, 8)       12.66( 69, 7)       12.12(135,18)
    -4373.       1610.    756.       15.89( 70, 9)       14.10( 68,20)       13.55( 92, 8)       12.66( 69, 7)       12.12(135,18)
    -4373.       4810.    856.       14.22(145,18)       11.46(120,18)        9.50(104, 8)        9.42(109, 8)        8.66(132,18)
    -4173.         10.    553.       45.78(  7,22)       33.57(  1,11)       29.46(149, 1)       27.51( 27,17)       26.25(107, 3)
    -4173.       1610.    787.       18.84( 68,20)       18.21( 70, 9)       16.51( 92, 8)       15.62( 74, 4)       15.49(144,18)
    -4173.       4810.    828.       17.89(145,18)       14.17(132,18)        9.64(109, 8)        9.11(150, 9)        9.00(104, 8)
    -3973.      -2390.    767.       10.19(114, 8)        9.68(115, 8)        9.04( 74, 5)        8.98(352, 6)        7.71( 73,24)
    -3973.      -1390.    732.       33.17(117, 7)       21.23( 51, 3)       16.02( 61,22)       14.60( 92, 6)       14.22( 60, 2)
    -3973.       -390.    548.       67.56( 96,23)       34.58( 46, 3)       27.04(102, 2)       22.02(149, 1)       19.34(103,17)
    -3973.         10.    549.       49.50(149, 1)       44.37(  7,22)       31.66( 57, 3)       30.98( 48, 7)       30.05(  3, 4)
    -3973.        610.    722.       72.31( 28,20)       69.96(133, 1)       68.48( 37,23)       68.19( 51, 1)       67.90(366, 6)
    -3973.       1610.    773.       25.42( 68,20)       20.95( 70, 9)       20.14( 92, 8)       17.32(120,22)       15.67( 82, 8)
    -3973.       2610.    875.       31.78(139,18)       16.61(146,17)       14.08( 94, 8)       13.98(148, 9)       12.38(136,17)
    -3973.       3610.    914.       20.24(129,18)       17.48(122,18)       16.02(120,18)       14.52( 70, 8)       12.55(106,18)
    -3973.       4610.    954.       19.73(145,18)       16.46(132,18)       10.77(136,18)       10.73( 98,18)        9.66(104, 8)
    -3973.       4810.    838.       18.40(145,18)       18.37(132,18)       13.22(136,18)       13.17( 98,18)       10.28(150, 9)
    -3973.       5610.    686.       13.76( 74, 1)       13.47(100,19)        9.26( 82, 7)        8.44( 98,18)        8.42(136,18)
    -3773.         10.    549.       65.99(149, 1)       45.14(  7,22)       27.73( 68, 6)       26.07(107, 3)       25.07( 34,20)
    -3773.       1610.    755.       33.55( 68,20)       24.49( 92, 8)       24.14( 70, 9)       20.36( 82, 8)       18.82(366, 6)
1                                                                                                                POSTZ - PAGE NO.   3


                                              HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                  HIGHEST FIVE CONCENTRATIONS
       METERS                                                           VALUE(DAY,ENDING HOUR)

      X             Y       ELEV.          HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
---------------------------------------------------------------------------------------------------------------------------------------
    -3773.       1810.    792.       41.28( 68,20)       30.69( 82, 8)       26.91( 92, 8)       22.94( 70, 9)       22.10(135, 8)
    -3773.       2010.    824.       29.57(126, 8)       24.71( 82, 8)       23.43( 88, 8)       23.16(136, 9)       22.12( 95,19)
    -3773.       4810.    839.       19.13(132,18)       15.41(136,18)       15.37( 98,18)       15.35(145,18)        9.88(150, 9)
    -3573.         10.    549.       73.49(149, 1)       65.02(  7,22)       50.30(107, 3)       34.47( 68, 6)       26.45( 75, 7)
    -3573.       2010.    848.       29.86( 88, 8)       26.19(136, 9)       22.80( 95,19)       22.61( 82, 8)       19.89(122,17)
    -3573.       4810.    852.       15.85(132,18)       14.29(136,18)       14.27( 98,18)       13.30(100,19)       10.12(145,18)
    -3373.         10.    549.       69.39(149, 1)       51.27( 96,23)       31.18(103,17)       28.76( 50, 6)       28.51(  7,22)
    -3373.       2010.    799.       40.19(112,19)       39.61(135, 8)       38.93(126, 8)       35.16( 88, 8)       28.55(136, 9)
    -3373.       4810.    831.       21.40(100,19)       13.48( 82, 7)       13.32(107,19)       11.22(147,17)       10.43( 95, 8)
    -3273.       2010.    787.       41.44(112,19)       39.37(126, 8)       39.36( 98,19)       38.84(135, 8)       36.74( 88, 8)
    -3273.       2210.    841.       66.37( 98,19)       49.79(139,18)       26.10( 96, 7)       23.75(146,17)       22.41(148, 9)
    -3273.       2410.    862.       37.66(146,17)       34.81(139,18)       30.51( 96, 8)       27.72( 70, 8)       22.66(105,18)
    -3173.         10.    567.      137.49( 96,23)       85.09( 46, 3)       84.30(102, 2)       45.03(103,17)       44.13( 93,17)
    -3173.       2410.    841.       54.29( 96, 7)       40.80(146,17)       37.21( 70, 8)       34.73( 96, 8)       30.51(122,18)
    -3173.       4810.    806.       23.91(100,19)       16.99( 77, 6)       16.84(107,19)       15.59( 95, 8)       13.43( 82, 7)
    -2973.      -2390.    661.       30.03(  3, 1)       29.75( 74, 5)       24.97( 74, 3)       13.27( 52, 4)       13.27( 69, 3)
    -2973.      -1390.    613.       33.67(352, 1)       22.34( 74, 3)       17.55( 68,21)       15.02(114, 8)       14.89(115, 8)
    -2973.       -390.    609.       54.18(107, 5)       51.46(117, 7)       45.29(120,19)       42.69( 61,22)       39.82( 50, 4)
    -2973.         10.    601.       98.93( 96,23)       93.88(120,19)       64.60(106, 8)       60.49(151, 9)       51.93(107, 5)
    -2973.        610.    579.       64.16( 64, 2)       63.23( 77, 7)       57.71(107,20)       56.95(  7,22)       55.87(107, 4)
    -2973.       1610.    823.       59.64( 68,20)       50.81( 82, 8)       44.33( 92, 8)       40.44( 70, 9)       36.65( 74, 8)
    -2973.       2410.    784.       79.75( 74, 4)       75.65(151, 8)       65.34( 70, 7)       57.86(140, 8)       55.56( 70, 8)
    -2973.       2610.    786.       84.75( 74, 4)       67.36( 70, 7)       53.14(151, 8)       51.42(122,18)       47.85( 70, 8)
    -2973.       3610.    865.       31.71(132,18)       30.85(145,18)       24.29(136,18)       24.20( 98,18)       18.62(150, 9)
    -2973.       4610.    770.       24.96(100,19)       22.43( 77, 6)       18.88( 95, 8)       18.28(107,19)       13.42( 82, 7)
    -2973.       4810.    747.       23.65( 77, 6)       20.04(100,19)       18.38( 95, 8)       16.31(107,19)       10.89(144,17)
    -2973.       5610.    642.       17.91(  5,21)       13.83( 77, 6)       12.99(148,17)       10.04(149,17)        9.46( 95, 8)
    -2773.         10.    609.       84.05( 96,23)       81.19(120,19)       70.59(  3, 1)       67.46( 74, 3)       64.58( 68,21)
    -2773.       2410.    731.       98.34( 74, 4)       82.70( 70, 7)       74.38(151, 8)       64.24(122,18)       62.28( 70, 8)
    -2773.       4810.    724.       24.03( 77, 6)       19.12(  5,21)       16.97( 95, 8)       15.78(148,17)       12.20(149,17)
    -2573.         10.    587.      107.79( 69, 5)      106.04(  2,24)      105.05(  2,23)      103.52( 18, 1)       92.98( 17, 3)
    -2573.       2410.    732.       98.89( 74, 2)       87.24( 74, 4)       69.46( 70, 7)       56.11(122,18)       55.84(129,18)
    -2573.       4810.    713.       22.92(  5,21)       17.40( 77, 6)       16.96(148,17)       13.10(149,17)       12.40(153, 8)
    -2373.         10.    574.       99.27(117, 7)       97.48(  1,21)       95.46( 33, 3)       92.78( 17, 2)       92.00( 30, 4)
    -2373.       2410.    726.      107.65( 74, 2)       78.02(120,18)       62.55(129,18)       59.48(133, 8)       49.98( 94,19)
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   -2373.     4810.     700.      20.56(  5,21)     15.98( 37,22)     15.29(153, 8)     14.87(152, 8)     12.87(148,17)
   -2173.       10.     564.     103.75(117, 7)     80.71( 51, 3)     79.32( 52, 2)     73.39( 10,24)     73.26( 40, 3)
   -2173.     2410.     675.      66.18(120,18)     65.81( 74, 1)     60.86( 74, 2)     57.45(145,18)     55.66(132,18)
   -2173.     4810.     675.      16.91(152, 8)     16.69( 37,22)     16.19( 84,22)     14.33(104, 4)     14.06(153, 8)
   -1973.    -2390.     487.      33.00(363,22)     28.63(355, 4)     28.14(363,21)     27.94(108, 5)     25.80(351, 5)
   -1973.    -1390.     522.      64.62(351, 5)     45.74(  3, 5)     35.86(352, 2)     34.12(108, 5)     29.29(363,22)
   -1973.     -390.     487.      66.26(  3, 1)     64.40(117, 5)     64.30( 74, 5)     64.27( 74, 3)     60.00( 80,23)
   -1973.     -190.     526.      80.61(352, 1)     72.48(  3, 1)     70.20( 74, 3)     70.15(117, 5)     69.63( 74, 5)
   -1973.       10.     549.      79.25(352, 1)     78.78(  3, 1)     77.00( 74, 3)     62.67( 51, 3)     60.92( 59, 2)
   -1973.      210.     549.     133.18(117, 7)     96.35( 51, 3)     90.61(107, 5)     87.39(352, 1)     86.40(106, 7)
   -1973.      410.     547.     152.52(120,19)    145.44(117, 7)    133.49( 96,23)    133.40( 60,22)    129.06(105,24)
   -1973.      610.     479.     187.51(149, 1)    177.57( 96,23)    155.71(120,19)    135.69(139, 2)    133.83( 85,22)
   -1973.     1610.     768.     161.62( 74, 4)    159.66(151, 8)    142.46(139,18)    140.11( 98,19)    136.13( 70, 7)
   -1973.     2410.     675.      76.61( 74, 1)     63.99(132,18)     62.55(145,18)     57.59(100,19)     54.53( 77, 6)
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                                         HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES
      METERS                                                     HIGHEST FIVE CONCENTRATIONS
                                                                  VALUE(DAY,ENDING HOUR)

     X          Y       ELEV.        HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-----------------------------------------------------------------------------------------------------------------------
   -1973.     2610.     799.      57.98( 77, 6)     55.58(132,18)     53.26(100,19)     50.57( 95, 8)     50.20(145,18)
   -1973.     3610.     696.      35.00(  5,21)     27.33( 77, 6)     26.52(148,17)     25.92(153, 8)     25.64(152, 8)
   -1973.     4610.     628.      23.96(104, 4)     20.76(108, 4)     17.44( 84,22)     17.07( 75,20)     16.77(152, 8)
   -1973.     4810.     646.      23.65(104, 4)     16.85( 75,20)     16.09(125,18)     15.53( 84,22)     14.15(152, 8)
   -1973.     5610.     597.      20.31(104, 4)     17.60(108, 4)     17.47(107,24)     14.45( 75,20)     11.51(125,18)
   -1773.     -790.     529.      82.50(351, 5)     57.13(  3, 5)     55.67( 74, 5)     50.47(363,22)     46.65(108, 5)
   -1773.     -590.     497.      89.92(351, 5)     68.36(355, 4)     65.74(  3, 1)     65.72( 74, 5)     61.59(  3, 5)
   -1773.      210.     539.      96.75(  3, 1)     96.09(352, 1)     94.32( 74, 5)     93.75( 74, 3)     93.59(117, 5)
   -1773.      410.     491.     181.65( 93,20)    171.13(117, 7)    133.80(114,20)    130.21(355, 3)    124.88(107, 5)
   -1773.     2410.     668.      78.90( 74, 1)     70.14( 77, 6)     64.55(100,19)     62.89(132,18)     62.71( 95, 8)
   -1773.     4810.     609.      25.30(104, 4)     23.81(107,24)     21.93(108, 4)     18.00( 75,20)     15.36(107, 1)
   -1573.    -1190.     433.      64.67(363,21)     55.08(351, 5)     54.02(364, 1)     53.17(355, 4)     49.83(363,22)
   -1573.     -990.     459.      84.04(351, 5)     69.86(363,21)     65.02(355, 4)     54.40(364, 1)     53.46(363,22)
   -1573.     -790.     482.      90.83(351, 5)     75.87(363,21)     66.48(355, 4)     58.15(363,22)     56.46(  3, 5)
   -1573.     -590.     487.      93.55(351, 5)     82.61(363,21)     70.70(355, 4)     69.89(  3, 5)     63.81(363,22)
   -1573.     -390.     465.     102.59(351, 5)     88.52(363,21)     78.31( 74, 5)     77.92(355, 4)     71.31(  3, 5)
   -1573.     -190.     475.     114.32(351, 5)     95.17(  3, 1)     90.01( 74, 3)     86.90(355, 4)     85.20(363,21)
   -1573.       10.     505.     129.84(351, 5)     98.79(355, 4)     93.55(117, 5)     92.84(  3, 1)     91.29( 74, 3)
   -1573.      210.     495.     149.39(351, 5)    127.39(352, 1)    113.79(355, 4)    104.85(  3, 1)    102.58(  3, 5)
   -1573.      410.     482.     196.27( 93,20)    175.21(351, 5)    133.61(117, 7)    131.60(355, 4)    129.27( 51, 3)
   -1573.     2410.     648.      80.03( 77, 6)     68.66( 95, 8)     67.94(100,19)     59.24(104, 4)     58.89(  5,21)
   -1573.     4810.     609.      25.47(107,24)     22.41(113,23)     20.30(107, 1)     16.77(135,18)     16.69(104, 4)
   -1373.    -1190.     427.      66.12(363,21)     63.66(364, 1)     48.98(363,22)     41.62(135, 4)     38.87( 23, 5)
   -1373.     2410.     609.      87.39( 96, 6)     65.08(  5,21)     63.38(113,23)     63.06(104, 4)     62.75(107,24)
   -1373.     4810.     575.      25.66(113,23)     21.41( 93, 6)     20.58(144,18)     19.82(107, 1)     19.43(135,18)
   -1173.    -1190.     423.      68.96(364, 1)     60.41(363,21)     50.48( 94, 1)     43.74( 73,24)     43.17(135, 4)
   -1173.     -990.     423.      79.89(363,21)     74.19(364, 1)     54.88( 94, 1)     50.06( 73,24)     46.53( 23, 5)
   -1173.     -790.     424.      92.67(363,21)     79.13(364, 1)     60.09( 94, 1)     57.19( 73,24)     51.23( 96,24)
   -1173.     -590.     425.      96.18(363,21)     85.37(364, 1)     66.38( 94, 1)     65.13( 73,24)     56.58(363,22)
   -1173.     -390.     425.      97.79(363,21)     94.35(364, 1)     84.31(363,22)     74.14( 94, 1)     74.03( 73,24)
   -1173.     2410.     610.      80.34( 96, 6)     77.69(144,18)     74.71(104, 4)     67.73(107,24)     67.21(100,22)
   -1173.     4810.     555.      30.12(123,23)     27.50(144,18)     24.32(104, 6)     21.32(113,23)     18.09(113,22)
    -973.    -2390.     407.      35.25( 94, 1)     33.41( 73,24)     27.80(364, 2)     27.49( 23, 4)     26.86( 97, 1)
    -973.    -1390.     411.      50.12( 94, 1)     46.86( 73,24)     44.91(136, 6)     41.31( 77, 1)     39.23(364, 2)
    -973.     -390.     421.     101.46(364, 1)     75.95( 94, 1)     74.55(135, 4)     74.50( 92, 6)     74.50(124, 2)
    -973.     -190.     423.     129.88(364, 1)     97.88(363,21)     85.38( 94, 1)     84.98( 92, 6)     84.98(124, 2)
    -973.      610.     387.     416.57(351, 5)*   329.43(355, 4)*   239.90(364, 1)    229.04(363,21)    225.71(352, 2)
    -973.     1610.     594.     293.83(  3, 7)    216.43(359, 1)    214.47( 94, 6)    207.22( 77, 6)    197.31( 96, 6)
    -973.     2410.     610.      84.61(114, 3)     84.36(120,22)     82.23(144,18)     76.69(114, 2)     75.77(113,23)
    -973.     2610.     609.      74.09(120,22)     72.32(114, 3)     72.19(144,18)     67.36(114, 2)     64.32(113,23)
    -973.     3610.     609.      42.23(144,18)     37.80(100,22)     37.73(104, 6)     29.17(133,18)     28.05(113,22)
    -973.     4610.     551.      26.97(104, 6)     26.77(144,18)     21.48(123,23)     20.30(100,22)     20.04(113,22)
    -973.     4810.     549.      25.35(104, 6)     24.66(144,18)     18.92(123,23)     18.84(113,22)     18.65(133,18)
    -973.     5610.     549.      20.05(104, 6)     18.28(144,18)     14.90(113,22)     14.32(133,18)     11.95(  2, 1)
    -773.     -190.     420.     104.56( 73,24)     97.59(136, 6)     91.69( 77, 1)     90.15( 94, 5)     90.15( 97,23)
    -773.     2010.     603.     175.72(  3, 7)    118.30(359, 1)    113.95(366, 6)    113.48( 70, 6)    112.73(114, 5)
    -773.     2210.     610.     102.95(  3, 7)     97.73(366, 6)     95.03( 97, 5)     94.98(120,22)     94.79(114, 4)
    -773.     2410.     610.      85.57(366, 6)     83.15( 97, 5)     82.89(114, 4)     82.21(120,22)     82.11(114, 3)
    -773.     4810.     549.      26.41(100,22)     19.87( 81,22)     18.16(107,22)     17.16( 84,20)     15.47(104, 6)
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                                         HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)
 RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
       METERS                                                  VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
---------------------------------------------------------------------------------------------------------------------------
     -573.       -190.    417.      88.12( 92, 6)      88.12(124, 2)      88.10( 87,22)      88.10(132,24)      88.01(153, 2)
     -573.       2010.    593.     161.59(  3, 7)     114.83(114, 4)     112.81(359, 1)     112.17(366, 6)     106.77(114, 3)
     -573.       2210.    609.     141.37(  3, 7)     105.52(114, 3)      97.85(359, 1)      93.45(366, 6)      91.48(114, 4)
     -573.       2410.    610.     123.09(  3, 7)      91.84(114, 3)      87.77(120,22)      81.81(366, 6)      79.86( 77, 4)
     -573.       4810.    572.      29.94(120,22)      27.22(114, 2)      26.93(100,22)      24.95(114, 1)      22.11(134,18)
     -373.       -390.    410.      84.80( 98,21)      81.08(125, 1)      77.72( 92,24)      77.72(135, 6)      75.36(352, 3)
     -373.       -190.    418.      96.95( 92,24)      96.95(135, 6)      95.77(352, 3)      95.77(352, 4)      94.67(125, 1)
     -373.       2010.    564.     152.58(  3, 7)     104.83( 77, 4)     103.96(359, 1)     100.62(114, 5)      99.51( 97, 6)
     -373.       2210.    594.     132.12(  3, 7)      91.87( 97, 5)      91.19(359, 1)      85.23( 77, 4)      85.00(114, 5)
     -373.       2410.    599.     117.79(  3, 7)      90.78(366, 6)      85.96( 97, 5)      83.60(114, 4)      81.14(359, 1)
     -373.       4810.    598.      32.33(120,22)      31.28(114, 3)      29.39(114, 2)      26.94(114, 1)      24.43(134,18)
     -173.       -390.    402.      79.96(124, 3)      78.30(128,21)      77.42( 87,22)      77.42(132,24)      74.79( 97, 4)
     -173.       2410.    502.     113.39(  3, 7)      77.65( 77, 4)      77.65(115, 2)      77.65(115, 4)      76.53(359, 1)
     -173.       4810.    609.      31.46(114, 3)      24.94(120,22)      22.67(114, 2)      20.78(114, 1)      20.54(114, 4)
       27.      -2390.    366.      35.98( 98,21)      29.14(153, 7)      27.81(125, 1)      26.91( 17, 1)      26.07( 97, 2)
       27.      -1390.    366.      49.55(125, 1)      48.54( 92,24)      48.46(135, 6)      47.32(352, 3)      47.32(352, 4)
       27.       -590.    384.      68.57(153, 2)      66.99( 87,22)      66.99(132,24)      63.90(124, 3)      62.37(117, 6)
       27.       -390.    392.      79.25(117, 6)      78.88(153, 2)      74.21( 87,22)      74.21(132,24)      70.78(146,20)
       27.        610.    293.     163.69( 70, 5)     163.66( 73,23)     163.63( 70, 4)     163.61(133,19)     163.61(151, 7)
       27.       1610.    502.     174.14( 70, 2)     173.94(144,19)     172.17( 63, 1)     171.84(106, 3)     167.73( 77,22)
       27.       2410.    428.      89.32(  3, 7)      76.23(359, 1)      73.89( 70, 6)      73.03(115, 3)      73.03(115,20)
       27.       2610.    489.     106.58(  3, 7)      67.80(114,21)      67.58(359, 1)      67.09(114, 5)      64.19( 70, 6)
       27.       3610.    555.      44.46( 97, 5)      43.96(366, 6)      42.60(  3, 7)      39.43( 77, 4)      38.29( 97, 6)
       27.       4610.    605.      33.20(366, 6)      32.70(114, 4)      30.09( 97, 5)      20.20(  3, 8)      17.65( 40, 5)
       27.       4810.    609.      30.28(114, 4)      29.79(366, 6)      24.74( 97, 5)      18.60(114, 3)      17.46(  3, 8)
       27.       5610.    487.      24.87(115, 6)      23.89(114, 3)      17.79( 92,20)      17.31(110, 4)      15.16( 93, 5)
      227.       -590.    373.      67.77(127, 3)      62.33(146,20)      61.99(117, 6)      61.82(140,24)      58.59( 94, 4)
      227.       2410.    426.      76.98( 91,23)      71.70(115, 5)      71.48(125,19)      70.48(104,21)      70.14( 88, 2)
      227.       4810.    608.      32.09(366, 6)      30.62(114, 4)      30.53( 97, 5)      19.09(  3, 8)      17.79(113,24)
      427.       -790.    365.      61.02(127, 3)      54.77( 94, 4)      54.77( 95, 6)      54.77(147, 3)      52.90(114,23)
      427.       -590.    366.      64.28( 94, 4)      64.28( 95, 6)      64.28(147, 3)      63.42(114,23)      62.55(128,24)
      427.       2410.    424.      99.55(115, 5)      97.27( 98, 3)      97.27(134, 6)      85.93(134, 7)      76.70( 91,23)
      427.       4810.    575.      28.84( 97, 5)      26.92(366, 6)      22.89(113,24)      20.42( 97, 6)      20.42(146,18)
      627.       -790.    360.      56.65( 94, 4)      56.65( 95, 6)      56.65(147, 3)      56.38(114,23)      55.16( 77, 3)
      627.       2410.    408.      92.26(132,19)      91.58( 98, 3)      91.57(134, 6)      87.20(115, 5)      85.55(148, 6)
      627.       4810.    548.      24.34( 97, 6)      24.34(146,18)      23.15( 77, 4)      22.91(109, 1)      22.16(113,24)
      827.       -790.    355.      84.17(137, 5)      76.52(138, 1)      70.33(126, 2)      70.14(149,20)      70.14(153, 5)
      827.       2410.    372.      87.42(106, 1)      87.42( 92, 1)      87.42(122,20)      84.99(132,19)      80.12(148,18)
      827.       4810.    563.      38.89(  3, 7)      28.61( 77, 4)      27.24(114, 5)      21.90( 74, 7)      21.90(122,19)
     1027.      -2390.    339.      31.23(153, 2)      30.51(117, 6)      28.73( 87,22)      28.33(132,24)      26.95( 87, 3)
     1027.      -1390.    346.      42.28( 94, 4)      42.25( 95, 6)      42.25(147, 3)      41.37(114,23)      39.86(128,24)
     1027.       -790.    350.      74.48( 98, 4)      74.37(153,22)      73.40( 97,24)      73.30(151,24)      73.29( 98, 6)
     1027.       -390.    351.     108.51( 96,23)      89.13(127, 2)      88.27(114, 6)      86.64( 85,22)      84.89(298, 6)
     1027.        610.    320.      94.46(134, 1)      93.93( 91,21)      93.93(135,21)      93.40(149, 1)      91.61(149,19)
     1027.       1610.    398.     281.34( 74, 4)     240.82( 70, 7)     236.16(151, 8)     222.46(123,22)     211.88( 96,21)
     1027.       2410.    363.      81.98(148,18)      80.69( 87, 1)      76.68(134, 4)      73.28( 92, 1)      73.28(106, 1)
     1027.       2610.    365.      77.37(132,19)      74.01(106, 1)      74.01( 92, 1)      74.01(122,20)      70.34(118,24)
     1027.       3610.    422.      34.02(103,19)      33.94(104, 5)      29.36( 92, 2)      29.27(115,22)      26.62(  2,20)
     1027.       4610.    541.      46.53(  3, 7)      29.03( 70, 6)      28.16(114, 5)      27.10(359, 1)      24.81( 77, 4)
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                                              HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
       METERS                                                  VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
---------------------------------------------------------------------------------------------------------------------------
     1027.       4810.    548.      44.35(  3, 7)      28.35(114, 5)      27.33( 77, 4)      24.97( 70, 6)      22.81( 74, 7)
     1027.       5610.    600.      18.40( 97, 6)      18.39(146,18)      17.51( 77, 4)      15.74(113,24)      13.09( 73,19)
     1227.       -790.    344.      66.44(127, 2)      66.31(114, 6)      63.35(298, 6)      62.76( 97,24)      62.66(151,24)
     1227.       2410.    355.      75.71(134, 4)      73.51( 63, 1)      71.75( 87, 1)      65.68(144,19)      63.08(148,18)
     1227.       4810.    585.      41.08(  3, 7)      27.66( 70, 6)      26.66(359, 1)      22.23(114, 5)      21.81(133, 7)
     1427.       -990.    337.      60.39(127, 2)      58.41(114, 6)      58.21( 97,24)      58.07(151,24)      58.05( 98, 6)
     1427.       -790.    338.      64.14( 98, 5)      63.20( 92, 4)      63.20(123, 2)      63.20(150, 7)      62.63(114, 6)
     1427.       2410.    346.      71.72(144,19)      71.05( 63, 1)      70.07( 93, 5)      68.03( 70, 2)      59.55(106, 3)
     1427.       4810.    588.      25.82(359, 1)      24.34( 70, 6)      22.93(  3, 7)      22.42( 92, 2)      20.48( 10, 3)
     1627.      -1190.    331.      54.56(127, 2)      53.99( 97,24)      53.78(151,24)      53.75( 98, 6)      50.59(114, 6)
     1627.       -990.    332.      57.76( 98, 5)      56.97(114, 6)      54.77( 92, 4)      54.77(123, 2)      54.77(150, 7)
     1627.       1610.    331.      99.05( 86,22)      99.05( 94, 6)      85.70( 97,22)      80.54( 70, 1)      80.01( 97,21)
     1627.       1810.    331.     117.87( 93, 5)      90.67(114,22)      88.34(359, 3)      81.11( 93, 4)      81.08( 86,22)
     1627.       2010.    332.     108.03(150,19)      97.73( 88, 3)      83.03( 93, 5)      79.93( 96, 6)      78.60( 94,21)
     1627.       2210.    333.     103.78( 96, 6)      73.09(150,22)      71.64( 89,20)      71.01(135,23)      70.76( 95, 5)
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      1627.       2410.     337.      78.34(150,22)      67.15( 70, 2)      66.48(106, 3)      62.87(144,19)      61.41( 88, 6)
      1627.       4810.     532.      23.86( 92, 2)      21.87(103,19)      21.64( 90, 4)      18.94(104, 5)      18.66(359, 1)
      1627.       5010.     533.      22.24(359, 1)      21.94( 92, 2)      19.93( 90, 4)      19.43( 70, 6)      17.87( 10, 3)
      1827.      -1390.     325.      49.89( 97,24)      49.62(151,24)      49.56( 98, 6)      48.78(127, 2)      46.37( 98, 4)
      1827.      -1190.     326.      52.16(114, 6)      51.54( 98, 5)      49.82(298, 6)      49.73(127, 2)      46.64(137, 3)
      1827.       1610.     321.     208.43( 96, 6)     189.87(150,22)     122.86( 86,21)     121.98(153,24)      93.83(104, 4)
      1827.       5010.     486.      22.02( 92, 2)      21.22(103,19)      21.16(115, 3)      20.02( 90, 4)      18.88(104, 5)
      2027.      -2390.     309.      28.57(114,23)      27.34( 94, 4)      27.22( 95, 6)      27.22(147, 3)      26.17( 77, 3)
      2027.      -1390.     320.      47.59(114, 6)      46.27(127, 2)      45.36( 98, 5)      45.33(298, 6)      41.97( 97,24)
      2027.       -390.     322.     151.34( 70, 4)     142.89( 70, 5)     132.26( 73,23)     128.82( 83,24)     123.74(127, 1)
      2027.        610.     317.     237.91( 74, 1)     218.97( 73,24)     216.28( 96,22)     197.63( 96, 5)     190.42(356, 1)
      2027.       1410.     313.     154.03(115, 6)     151.01(114, 4)     144.85(366, 6)     144.15(114, 3)     139.93(115, 1)
      2037.       1231.     311.     261.15(114, 5)     257.26(115, 2)     257.26(115, 4)     257.21( 77, 4)     213.44(115,24)
      2027.       1610.     312.      95.75(120,22)      89.38(123,23)      87.05(114, 2)      84.76(104, 6)      79.79(114, 1)
      2027.       2610.     327.      56.67( 70, 2)      55.70(106, 3)      52.04(144,19)      49.75( 88, 6)      49.56( 77,22)
      2027.       3610.     342.      45.78( 98, 3)      44.42(134, 6)      40.41(115, 5)      34.29(148, 6)      30.82( 81, 5)
      2027.       4610.     440.      26.29(115,22)      18.92(104, 5)      18.87(  2,20)      16.01(  9,23)      14.86(120,22)
      2027.       5010.     469.      21.53(104, 5)      21.48(103,19)      16.84( 92, 2)      16.49(115,22)      15.31( 90, 4)
      2027.       5610.     515.      18.08( 92, 2)      17.95(359, 1)      16.62( 90, 4)      14.99( 70, 6)      14.89(133, 1)
      2227.      -1590.     313.      43.06(127, 2)      43.05(114, 6)      40.93(298, 6)      39.58( 97,24)      39.33(151,24)
      2227.        610.     311.     204.31(153, 2)     202.27( 87,22)     202.27(132,24)     190.67(124, 3)     185.32(117, 6)
      2227.        810.     310.     150.69(136, 5)     150.69(124, 5)     150.69(153,23)     139.36(123, 4)     133.69(366, 6)
      2227.       1210.     305.     153.71( 87, 1)     151.12(148,18)     150.41(134, 4)     138.57(122,20)     138.57( 92, 1)
      2227.       1410.     305.      88.06(115, 5)      77.63(134, 6)      77.63( 98, 3)      77.21(366, 6)      76.73(114, 4)
      2227.       5010.     438.      23.50(115,22)      19.79(104, 5)      16.95(103,19)      16.58(120,22)      15.41(114, 2)
      2427.      -1590.     309.      47.38( 94, 5)      47.38( 97,23)      47.38( 98, 1)      47.38(124, 1)      43.24( 98, 5)
      2427.        410.     307.     136.74(123, 1)     136.74(138, 5)     136.48(123, 3)     136.48(134,19)     131.67(109, 4)
      2427.        610.     304.     139.79( 92, 5)     137.95( 93, 2)     131.65( 77, 2)     131.65( 94, 3)     131.48( 73,22)
      2427.        810.     305.     120.44(136, 5)     120.44(153,23)     120.44(124, 5)     106.62(123, 4)      95.75(359, 2)
      2427.       1210.     305.     128.58( 95, 5)     128.58( 89,20)     127.47(135,23)     114.09( 88, 6)     114.09( 77,22)
      2427.       5010.     426.      25.65(115,22)      16.84(  2,20)      16.25(114, 3)      14.32(  9,23)      13.58(104, 5)
      2627.      -1590.     304.      41.74( 92, 4)      41.74(123, 2)      41.74(150, 7)      41.70( 94, 3)      41.60( 77, 2)
      2627.      -1390.     304.      45.97( 93, 2)      45.05( 92, 5)      40.39( 95, 4)      40.34( 73,22)      40.34( 85, 1)
      2627.       -390.     305.     101.78( 87,22)     101.78(132,24)     101.63(153, 2)      98.91(124, 3)      90.48(117, 6)
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                                              HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                HIGHEST FIVE CONCENTRATIONS
       METERS                                                          VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.        HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
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      2627.       -190.     304.      97.47( 94, 4)      97.47( 95, 6)      97.47(147, 3)      93.90(114,23)      89.40(128,24)
      2627.         10.     305.     100.38(109, 4)     100.28( 95, 4)     100.26( 85, 1)     100.25( 73,22)     100.25(138, 5)
      2627.        210.     305.      91.83(134, 1)      89.59( 93, 2)      89.39( 92, 5)      88.61( 95, 4)      88.61( 85, 1)
      2627.        410.     305.      98.93( 92, 4)      98.93(123, 2)      98.93(150, 7)      97.32( 77, 2)      97.32( 94, 3)
      2627.        610.     305.     103.62(123, 4)      98.77(151, 6)      71.47( 87, 1)      70.57(125,20)      69.79(148,18)
      2627.        810.     305.     103.28(136, 5)     103.27(153,23)     103.27(124, 5)      85.52(123, 4)      79.39(359, 2)
      2627.       1010.     305.      87.89(359, 5)      85.30( 99,21)      82.93(123,21)      75.34( 89,21)      75.04( 95, 1)
      2627.       1210.     305.      88.60( 88, 3)      86.27(150,19)      77.04(123,21)      70.07(359, 5)      69.52( 93, 4)
      2262.        433.     311.     281.25(117, 6)     272.68(153, 2)     256.49( 87,22)     256.49(132,24)     236.30(146,20)
      2627.       5010.     380.      22.82(115,22)      16.63(  2,20)      15.86(  9,23)      15.66(115, 6)      13.60( 50, 2)
      2827.      -1390.     301.      56.26( 98,21)      51.08(125, 1)      46.44(151, 5)      44.59( 95, 4)      44.53( 73,22)
      2827.      -1190.     302.      66.15( 92,24)      66.15(135, 6)      63.09(125, 1)      58.81(352, 3)      58.81(352, 4)
      2827.       -990.     302.      70.76( 97, 4)      70.76(135,22)      69.02(128,21)      63.85(352, 3)      63.85(352, 4)
      2827.       -790.     302.      81.38( 70, 4)      76.68( 70, 5)      70.31( 87,22)      70.31(132,24)      69.97(124, 3)
      2827.       -590.     303.      71.58(151, 7)      71.58(133,19)      63.87( 70, 3)      63.87( 73,21)      62.91(127, 3)
      2827.       -390.     303.      67.38(114,23)      65.87( 94, 4)      65.87( 95, 6)      65.87(147, 3)      65.23( 77, 3)
      2827.       -190.     303.      70.61( 94, 3)      70.51( 77, 2)      70.29(150, 7)      70.29(123, 2)      70.29( 92, 4)
      2827.         10.     303.      76.36(149,19)      76.00(140,23)      71.98(134, 1)      64.60( 98, 5)      63.18(114, 6)
      2827.       5010.     358.      17.44( 88, 2)      17.14(104,21)      14.62(  9,23)      14.32(115,22)      14.29(107,23)
      3027.      -2390.     297.      31.71( 97,24)      31.09(151,24)      30.81(127, 2)      30.77( 98, 6)      27.97( 98, 4)
      3027.      -1390.     298.      50.00(128,21)      47.67( 97, 4)      47.67(135,22)      41.07(109, 4)      38.83(352, 3)
      3027.       -390.     300.      51.59(114, 6)      51.14( 77, 3)      50.26( 98, 5)      49.43(298, 6)      48.59(127, 2)
      3027.        610.     301.      72.71(123, 4)      60.55(151, 6)      58.16(136, 5)      58.10(153,23)      58.05(124, 5)
      3027.       1610.     302.      51.07( 63, 1)      48.77(144,19)      43.20(134, 4)      41.82( 70, 2)      38.65(115,19)
      3027.       2610.     303.      42.67(149,18)      38.15( 84, 1)      34.46(150,19)      32.71(135,23)      28.82(139, 6)
      3027.       3610.     305.      34.49( 87, 1)      32.49(148,18)      31.48(134, 4)      25.02(120,20)      24.46(150,18)
      3027.       4610.     333.      29.90(115, 5)      28.55( 98, 3)      25.09(134, 6)      23.27(116, 3)      20.67( 59, 1)
      3027.       5010.     348.      20.78( 88, 2)      17.53( 91,23)      17.32(115, 1)      17.24(108,24)      16.32(125,19)
      3027.       5610.     372.      24.04(115,22)      14.23(  2,20)      13.35( 93,22)      12.51(115, 6)      12.28(  9,23)
      3227.       5010.     338.      20.02(115, 5)      19.22( 91,23)      17.85(125,19)      17.34( 88, 2)      16.20(116, 3)
      3227.       5210.     345.      19.52( 88, 2)      16.14(115, 1)      15.93( 91,23)      15.93(108,24)      15.11(104,21)
      3227.       5610.     362.      18.85(115,22)      17.62(115, 1)      13.48(366, 6)      13.32(  2,20)      13.18(  9,23)
      3227.       6010.     373.      23.45(115,22)      13.88(115, 1)      12.16(114, 4)      11.89( 93,22)      11.61(  2,20)

 * - DENOTES PEAK VALUE
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                          HIGH FIVE TABLE FOR     8 HOUR AVERAGES

 RECEPTOR COORDINATES                      HIGHEST FIVE CONCENTRATIONS
      METERS                                 VALUE(DAY,ENDING HOUR)

   X          Y        ELEV.      HIGHEST        2ND HIGH       3RD HIGH       4TH HIGH       5TH HIGH
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  -5973.    -2390.    798.      1.79(120,24)   1.10(151,16)   1.00(106, 8)   0.75(114,16)   0.60(137, 8)
  -5973.    -1390.    793.      1.16( 51, 8)   1.08(103,24)   1.01(365,24)   0.96(106, 8)   0.79(146,16)
  -5973.     -390.    781.      4.37(  7,24)   2.88( 77, 8)   2.31( 68, 8)   1.72( 72,24)   1.72(124, 8)
  -5973.      610.    852.      2.96( 74, 8)   2.20( 70,16)   1.78(144,16)   1.73( 77,16)   1.59(104,16)
  -5973.     1610.    731.      2.35( 70,16)   1.90( 77,16)   1.79(135,16)   1.79(149,16)   1.78( 70, 8)
  -5973.     2610.    730.      2.47( 74, 8)   2.23( 70,16)   1.98(149,16)   1.97( 77,16)   1.82(106,16)
  -5973.     3610.    728.      3.07( 98,24)   2.19(139,24)   2.19(148,16)   1.88( 92, 8)   1.69(149,16)
  -5973.     4610.    747.      3.47( 70, 8)   3.04( 74, 8)   2.09(151, 8)   1.87(218,16)   1.86( 96, 8)
  -5973.     5610.    625.      3.32( 74, 8)   1.77( 96,24)   1.77(140, 8)   1.69(218,16)   1.62(129,24)
  -4973.    -2390.    797.      1.62(114,16)   1.59(106, 8)   1.12(115,16)   0.89(137, 8)   0.84(108, 8)
  -4973.    -1390.    731.      3.50(120,24)   1.86(106, 8)   1.86( 74, 8)   1.58(151,16)   1.35( 55, 8)
  -4973.     -390.    652.      3.99(  7,24)   2.96(365,24)   2.73(106, 8)   2.72( 77, 8)   2.58(120,24)
  -4973.     1610.    771.      3.18( 70,16)   2.42(100,24)   2.39( 76,16)   2.36( 88,16)   2.33(104,16)
  -4973.     2610.    792.      3.30(148,16)   2.84( 77,16)   2.80(106,16)   2.69(112,24)   2.59(149,16)
  -4973.     3610.    904.      2.22(148,16)   2.15(149,16)   2.07(139,24)   2.06(105,16)   1.96(124,16)
  -4973.     4610.    858.      2.45(129,24)   2.25(134,16)   2.17(132,16)   2.10(135,16)   1.77(120,24)
  -4973.     5610.    570.      2.28(150,16)   2.00( 74, 8)   1.85( 96,24)   1.76(140, 8)   1.74(132,16)
  -4773.      410.    646.     11.18( 77,16)   9.81(106,16)   8.97(137,16)   8.05(144,16)   7.84(148,16)
  -4773.      610.    669.     10.97(354, 8)  10.49( 70, 8)   9.68( 74, 8)   9.29(100,24)   9.11(105,16)
  -4773.      810.    666.      9.46( 74, 8)   8.23( 77, 8)   8.21(132,16)   7.93(150,16)   7.93(354, 8)
  -4773.     1010.    695.     11.42( 74, 8)   6.31(150,16)   5.78( 77, 8)   5.01(147,16)   4.90(133,16)
  -4773.     1210.    730.      3.67(100,24)   3.30( 77, 8)   3.03(107,24)   2.83(147,16)   2.76( 82, 8)
  -4773.     1210.    730.      3.67(100,24)   3.30( 77, 8)   3.03(107,24)   2.83(147,16)   2.76( 82, 8)
  -4573.      410.    633.     22.45(113,16)  21.91( 72,24)  18.80(123,16)  17.49(106,16)  17.20(122,16)
  -4573.     1210.    722.      3.12( 92,16)   3.07(  5,24)   3.03( 37,24)   2.94(134,16)   2.92( 77, 8)
  -4573.     4810.    853.      2.56(150,16)   2.44(132,16)   2.23(120,24)   1.96(135,16)   1.93(133,16)
  -4373.       10.    609.     17.13(107, 8)  15.69(  1,16)  15.24(365,24)  13.71( 50, 8)  13.56(  1,24)
  -4373.      210.    554.      9.10( 77, 8)   6.50(107, 8)   6.08( 72,24)   5.83(354, 8)   3.60(361,24)
  -4373.      410.    583.     16.23( 75,16)  15.73( 69,16)  13.87( 67,16)  11.77( 76,16)   9.46( 78,16)
  -4373.     1410.    694.      3.75( 70,16)   3.49( 73, 8)   3.19(104,16)   2.85(354, 8)   2.78(144,16)
  -4373.     1610.    756.      4.23( 70,16)   3.13(144,16)   3.04( 73, 8)   3.03(104,16)   2.82( 76,16)
  -4373.     1610.    756.      4.23( 70,16)   3.13(144,16)   3.04( 73, 8)   3.03(104,16)   2.82( 76,16)
  -4373.     4810.    856.      2.97(150,16)   2.42(132,16)   2.10(133,16)   1.96(120,24)   1.89(135,16)
  -4173.       10.    553.      7.43(  1,16)   6.93(107, 8)   5.72(  7,24)   5.47( 77, 8)   4.79(149, 8)
  -4173.     1610.    787.      4.82( 70,16)   3.56(144,16)   3.17(109,16)   3.16( 68,24)   3.13(104,16)
  -4173.     4810.    828.      3.32(150,16)   2.59(132,24)   2.30(132,16)   2.29(133,16)   2.24(145,24)
  -3973.    -2390.    767.      2.01(114,16)   1.62( 23, 8)   1.33( 74, 8)   1.27(114, 8)   1.21(115, 8)
  -3973.    -1390.    732.      4.15(117, 8)   2.81(114,16)   2.67( 51, 8)   2.39(106, 8)   2.17(365,24)
  -3973.     -390.    548.      8.69( 96,24)   4.32( 46, 8)   3.76(149, 8)   3.38(102, 8)   2.95(130,16)
  -3973.       10.    549.     14.91( 20, 8)  12.77( 12, 8)  11.61( 16, 8)  10.62(  2, 8)   9.95( 25, 8)
  -3973.      610.    722.     12.41( 37,24)  10.72( 28,24)  10.36(108,24)  10.02( 29,16)   9.76( 51, 8)
  -3973.     1610.    773.      5.55( 70,16)   4.08(144,16)   3.61( 68,24)   3.54( 84,24)   3.44( 74, 8)
  -3973.     2610.    875.      5.27(139,24)   4.88(148,16)   3.96(106,16)   3.91(123,16)   3.63(149,16)
  -3973.     3610.    914.      3.93(129,24)   3.80(134,16)   3.49(132,16)   3.49(135,16)   2.81(150,16)
  -3973.     4610.    954.      2.95(132,24)   2.55(133,16)   2.49(132,16)   2.47(145,24)   2.40(150,16)
  -3973.     4810.    838.      3.48(150,16)   3.08(132,24)   2.45(133,16)   2.30(145,24)   2.11(132,16)
  -3973.     5610.    686.      2.97( 74, 8)   2.00(150,16)   1.84(100,24)   1.70(133,16)   1.60(218,16)
  -3773.       10.    549.      9.79(149, 8)   6.23(  4, 8)   5.88( 34,24)   5.64(  7,24)   4.92(107, 8)
  -3773.     1610.    755.      6.31( 70,16)   4.64(144,16)   4.27( 68,24)   3.93(153,16)   3.86(111,16)
1                                                                                   POSTZ - PAGE NO.   9

                          HIGH FIVE TABLE FOR     8 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                      HIGHEST FIVE CONCENTRATIONS
      METERS                                 VALUE(DAY,ENDING HOUR)

   X          Y        ELEV.      HIGHEST        2ND HIGH       3RD HIGH       4TH HIGH       5TH HIGH
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  -3773.     1810.    792.      6.25( 70,16)   5.31( 68,24)   4.79(144,16)   4.33( 77,16)   4.03(106,16)
  -3773.     2010.    824.      5.24( 70,16)   5.00( 77,16)   4.86(106,16)   4.67(148,16)   4.56(149,16)
  -3773.     4810.    839.      3.38(150,16)   3.03(132,24)   2.52(133,16)   2.11(147,16)   2.09(126,16)
  -3573.       10.    549.     11.01(149, 8)   8.13(  7,24)   7.97(107, 8)   4.35( 68, 8)   3.81( 77, 8)
  -3573.     2010.    848.      5.94(148,16)   5.73(106,16)   5.71( 77,16)   5.37(149,16)   5.36( 70,16)
  -3573.     4810.    852.      3.03(150,16)   2.43(132,24)   2.42(133,16)   2.13(147,16)   2.05(126,16)
  -3373.       10.    549.     10.71(149, 8)   6.85( 96,24)   5.03(103,24)   4.87(146,16)   4.15( 73,16)
  -3373.     2010.    799.      7.44(148,16)   6.74(106,16)   6.38( 77,16)   6.10(149,16)   5.52(144,16)
  -3373.     4810.    831.      2.95(100,24)   2.55(150,16)   2.15(133,16)   2.07(134,16)   2.05(147,16)
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    -3273.      2010.     787.       8.26(148,16)       7.27(106,16)       6.67( 77,16)       6.39(149,16)       5.87(104,24)
    -3273.      2210.     841.       8.64( 98,24)       8.18(139,24)       8.08(148,16)       6.59(106,16)       5.73(149,16)
    -3273.      2410.     862.       6.97(139,24)       6.53(148,16)       5.59(146,24)       5.47(149,16)       5.43(124,16)
    -3173.        10.     567.      17.64( 96,24)      10.65(102, 8)      10.64( 46, 8)       6.54(103,24)       6.41(146,16)
    -3173.      2410.     841.      11.13( 96, 8)       6.67(139,24)       6.62(148,16)       6.18(146,24)       5.96(149,16)
    -3173.      4810.     806.       3.21(100,24)       2.43(107,24)       2.24(134,16)       2.14(218,16)       2.12( 77, 8)
    -2973.     -2390.     661.       6.84( 74, 8)       6.08(  3, 8)       2.57(353,24)       2.45(106, 8)       2.21(352, 8)
    -2973.     -1390.     613.       6.24(352, 8)       4.21(  3, 8)       3.62(108, 8)       3.25(114,16)       2.94( 74, 8)
    -2973.      -390.     609.      10.78(107, 8)       8.32(106, 8)       7.96( 74, 8)       7.67( 61,24)       7.11(362, 8)
    -2973.        10.     601.      12.85( 96,24)      11.74(120,24)      10.87(106, 8)      10.37(365,24)       9.13(107, 8)
    -2973.       610.     579.      17.13( 72,24)      14.02(124,16)      14.01(106,16)      13.43(137,16)      13.42( 77, 8)
    -2973.      1610.     823.      10.91( 70,16)       8.43(144,16)       8.01( 77,16)       7.46(106,16)       7.46( 68,24)
    -2973.      2410.     784.      15.11( 70, 8)      11.12( 96, 8)      10.65( 74, 8)       9.46(151, 8)       7.95(122,24)
    -2973.      2610.     786.      16.26( 74, 8)      14.40( 70, 8)       7.61(135,16)       7.51(122,24)       7.26(134,16)
    -2973.      3610.     865.       6.51(150,16)       5.37(132,24)       4.70(133,16)       4.07(126,16)       3.91(132,16)
    -2973.      4610.     770.       3.39(100,24)       2.80( 77, 8)       2.57( 74, 8)       2.56(107,24)       2.52(134,16)
    -2973.      4810.     747.       2.96( 77, 8)       2.67(100,24)       2.38(134,16)       2.30( 95, 8)       2.27(107,24)
    -2973.      5610.     642.       2.24(  5,24)       1.83(271, 8)       1.73( 77, 8)       1.68(134,16)       1.62(148,24)
    -2773.        10.     609.      19.74(114,16)      16.71(  1,24)      15.91( 74, 8)      13.63(  3, 8)      13.16( 64, 8)
    -2773.      2410.     731.      19.25( 70, 8)      17.86( 74, 8)       9.35(135,16)       9.30(151, 8)       8.74(122,24)
    -2773.      4810.     724.       3.00( 77, 8)       2.45(134,16)       2.39(  5,24)       2.12( 95, 8)       2.10(123,24)
    -2573.        10.     587.      26.39(  2,24)      22.83( 69, 8)      22.12( 18, 8)      17.54( 51, 8)      17.29( 56, 8)
    -2573.      2410.     732.      23.74( 74, 8)      14.83( 70, 8)      11.25(132,16)      11.00(129,24)      10.97(135,16)
    -2573.      4810.     713.       2.86(  5,24)       2.45(134,16)       2.18( 77, 8)       2.12(148,24)       2.08(271, 8)
    -2373.        10.     574.      34.51(152,24)      25.42(  3, 8)      21.47( 79, 8)      21.01(130,16)      20.96(153, 8)
    -2373.      2410.     726.      21.97( 74, 8)      14.55(150,16)      12.51(132,16)      12.31(120,24)      11.37(134,16)
    -2373.      4810.     700.       2.57(  5,24)       2.43( 45,24)       2.36(134,16)       2.17( 37,24)       2.09(271, 8)
    -2173.        10.     564.      31.07(146,24)      19.72(148,24)      18.47(130,24)      18.10( 52, 8)      16.93( 20, 8)
    -2173.      2410.     675.      16.92( 74, 8)      16.82(150,16)      12.86(133,16)      12.66(120,24)      12.26(132,16)
    -2173.      4810.     675.       3.36( 84,24)       3.04( 45,24)       2.45( 37,24)       2.26(104, 8)       2.19(134,16)
    -1973.     -2390.     487.       8.43(363,24)       5.88(355, 8)       4.52(351, 8)       4.19(108, 8)       4.04( 85,24)
    -1973.     -1390.     522.      10.29(351, 8)       7.40(108, 8)       7.31(  3, 8)       5.64(352, 8)       5.36(353,24)
    -1973.      -390.     487.      19.72(  3, 8)      16.73( 74, 8)      11.40(352, 8)      10.81(365, 8)       9.82(117, 8)
    -1973.      -190.     526.      19.16( 74, 8)      17.25(352, 8)      16.81(  3, 8)      10.01(114,16)       9.87(117, 8)
    -1973.        10.     549.      32.47(119,24)      18.64( 74, 8)      18.22(120, 8)      17.16(132,24)      17.04(352, 8)
    -1973.       210.     549.      21.84(131, 8)      21.48(142, 8)      20.22( 51, 8)      19.93(142,24)      18.21(352, 8)
    -1973.       410.     547.      38.12(118, 8)      32.93(145, 8)      32.82(100, 8)      31.85(144, 8)      30.37( 89,24)
    -1973.       610.     479.      28.27(149, 8)      23.17( 96,24)      19.48(120,24)      18.13(107, 8)      17.85(139, 8)
    -1973.      1610.     768.      33.58(148,16)      32.58( 70, 8)      29.28( 96, 8)      29.25(149,16)      28.10(139,24)
    -1973.      2410.     675.      16.39(150,16)      12.64( 74, 8)      12.33(133,16)      11.40(147,16)      11.37(126,16)
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                                                                                                  POSTZ - PAGE NO.  10


                                          HIGH FIVE TABLE FOR     8 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
        METERS                                                    VALUE(DAY,ENDING HOUR)

     X          Y        ELEV.         HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
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    -1973.      2610.     799.      11.87(150,16)       9.39( 98,24)       9.19(132,24)       8.96(147,16)       8.79(133,16)
    -1973.      3610.     696.       4.81(134,16)       4.48( 84,24)       4.37(  5,24)       4.19( 45,24)       3.59(218,16)
    -1973.      4610.     628.       3.49( 84,24)       3.49(104, 8)       3.35( 45,24)       2.93(107,24)       2.60(108, 8)
    -1973.      4810.     646.       3.41(104, 8)       2.98( 84,24)       2.91( 45,24)       2.57( 75,24)       2.25( 76,24)
    -1973.      5610.     597.       4.40(107,24)       2.72(104, 8)       2.30(108, 8)       2.13( 75,24)       1.84( 45,24)
    -1773.      -790.     529.      13.70(351, 8)      11.52(  3, 8)      10.24(108, 8)       9.34(363,24)       8.87(353,24)
    -1773.      -590.     497.      18.26(  3, 8)      15.00(351, 8)      14.79( 74, 8)      13.02(355, 8)      12.30(108, 8)
    -1773.       210.     539.      25.58( 74, 8)      24.71(  3, 8)      22.80(352, 8)      22.02(117, 8)      17.18(114,16)
    -1773.       410.     491.      34.74(117, 8)      27.67(355, 8)      26.30( 74, 8)      24.69( 93,24)      24.57(107, 8)
    -1773.      2410.     668.      13.42(150,16)      12.20( 74, 8)      11.34(134,16)      11.12( 98,24)      10.61(147,16)
    -1773.      4810.     609.       5.45(107,24)       3.59(104, 8)       2.74(108, 8)       2.61( 75,24)       2.46( 45,24)
    -1573.     -1190.     433.      15.58(363,24)       9.95(364, 8)       9.65(106, 8)       9.19(351, 8)       8.63(108, 8)
    -1573.      -990.     459.      16.86(363,24)      13.28(351, 8)      10.56(364, 8)       9.85(106, 8)       9.20(108, 8)
    -1573.      -790.     482.      18.41(363,24)      14.68(351, 8)      11.03(108, 8)      10.91(364, 8)       9.71(106, 8)
    -1573.      -590.     487.      20.24(363,24)      15.64(351, 8)      12.70(108, 8)      10.90(  3, 8)      10.83(364, 8)
    -1573.      -390.     465.      22.19(363,24)      17.49(351, 8)      16.69(  3, 8)      14.00(108, 8)      13.80( 74, 8)
    -1573.      -190.     475.      26.20(  3, 8)      23.29( 74, 8)      23.19(363,24)      19.78(351, 8)      18.28(355, 8)
    -1573.        10.     505.      29.09(  3, 8)      25.30( 74, 8)      23.34(355, 8)      22.57(351, 8)      20.91(108, 8)
    -1573.       210.     495.      36.45(352, 8)      32.95(  3, 8)      27.79( 74, 8)      27.68(355, 8)      25.67(351, 8)
    -1573.       410.     482.      45.70(355, 8)      38.21(  3, 8)      38.00(352, 8)      37.62(117, 8)      34.60( 74, 8)
    -1573.      2410.     648.      12.86(134,16)      10.75( 77, 8)      10.30( 45,24)      10.15(218,16)      10.08( 38, 8)
    -1573.      4810.     609.       6.13(107,24)       3.02(113,24)       2.74(104, 8)       2.67( 38, 8)       2.54(107, 8)
    -1373.     -1190.     427.      15.69(363,24)      12.20(364, 8)      10.63(106, 8)      10.47( 85,24)       9.89( 69, 8)
    -1373.      2410.     609.      18.44(107,24)      12.85( 96, 8)      12.67(104, 8)      11.65(134,16)      11.28(113,24)
    -1373.      4810.     575.       5.22(107,24)       4.62(113,24)       3.12( 92,24)       2.95(144,24)       2.74( 86,24)
    -1173.     -1190.     423.      14.19(364, 8)      11.61(363,24)      11.54(106, 8)      11.05( 23, 8)      10.73( 69, 8)
    -1173.      -990.     423.      15.58(363,24)      15.55(364, 8)      12.51(106, 8)      12.48( 23, 8)      11.62( 69, 8)
    -1173.      -790.     424.      20.07(363,24)      17.17(364, 8)      13.94( 23, 8)      12.93(106, 8)      12.61( 69, 8)
    -1173.      -590.     425.      25.05(363,24)      19.34(364, 8)      15.85( 23, 8)      13.83( 69, 8)      13.81( 94, 8)
  -1173.      -390.    425.      30.16(363,24)      22.45(364, 8)      18.44( 94, 8)      18.29( 23, 8)      15.79( 69, 8)
  -1173.      2410.    610.      22.92(107,24)      18.97( 84,24)      17.81(104, 8)      14.12(113,24)      13.19(121,16)
  -1173.      4810.    555.       5.40(123,24)       4.93(113,24)       3.90(144,24)       3.49(104, 8)       3.45(107,24)
   -973.     -2390.    407.       7.12( 94, 8)       4.93( 23, 8)       4.52(364, 8)       4.38(  2,24)       4.37( 47, 8)
   -973.     -1390.    411.      15.02( 94, 8)       8.47( 23, 8)       8.14(124, 8)       7.62( 47, 8)       7.56(364, 8)
   -973.      -390.    421.      27.69(124, 8)      26.55( 94, 8)      22.36( 23, 8)      20.97(364, 8)      17.70(152,24)
   -973.      -190.    423.      33.46(124, 8)      30.08( 94, 8)      27.65( 23, 8)      25.79(364, 8)      23.17(363,24)
   -973.       610.    387.     138.97(150, 8)     130.99(124, 8)     107.59(146,24)     104.15(355, 8)      99.24(138, 8)
   -973.      1610.    594.     108.08(114, 8)      68.38( 63, 8)      67.88(107,24)      64.66(104, 8)      61.36( 78,24)
   -973.      2410.    610.      34.29(114, 8)      20.67(107,24)      17.85( 41, 8)      16.02( 84,24)      15.61(113,24)
   -973.      2610.    609.      26.23(114, 8)      15.54(107,24)      13.70( 84,24)      13.61( 41, 8)      13.45(113,24)
   -973.      3610.    609.       7.35( 84,24)       6.53(113,24)       6.02(107,24)       5.74(104, 8)       5.61(144,24)
   -973.      4610.    551.       4.35(123,24)       4.21(107,24)       3.96(104, 8)       3.86(144,24)       3.58(113,24)
   -973.      4810.    549.       3.94(107,24)       3.67(123,24)       3.60(144,24)       3.57(104, 8)       3.17(113,24)
   -973.      5610.    549.       2.71(104, 8)       2.67(144,24)       2.59(107,24)       2.46(  4,24)       2.43(123,24)
   -773.      -190.    420.      43.91(124, 8)      38.99( 97, 8)      29.76( 94, 8)      25.27(136, 8)      23.73(138, 8)
   -773.      2010.    603.      66.20(114, 8)      33.48(  3, 8)      31.82( 41, 8)      27.76( 63, 8)      27.00( 97, 8)
   -773.      2210.    610.      54.45(114, 8)      26.37( 41, 8)      22.84( 97, 8)      22.57(  3, 8)      19.44( 84,24)
   -773.      2410.    610.      39.40(114, 8)      22.38( 41, 8)      17.01( 97, 8)      16.22( 84,24)      14.40(366, 8)
   -773.      4810.    549.       4.84( 81,24)       4.52( 84,24)       4.37(107,24)       4.30(100,24)       3.80(114, 8)
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                                       HIGH FIVE TABLE FOR     8 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
      METERS                                               VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.        HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------
   -573.      -190.    417.      57.53(124, 8)      38.32( 97, 8)      33.00(152,24)      32.34(138, 8)      29.72(153, 8)
   -573.      2010.    593.      56.82(114, 8)      31.76(  3, 8)      31.24( 63, 8)      26.21( 62, 8)      25.73( 62,24)
   -573.      2210.    609.      55.15(114, 8)      27.16(  3, 8)      21.83( 97, 8)      21.73( 63, 8)      19.62(133, 8)
   -573.      2410.    610.      50.49(114, 8)      23.48(  3, 8)      19.10( 97, 8)      15.36( 41, 8)      14.86( 63, 8)
   -573.      4810.    572.       9.24(114, 8)       4.97( 84,24)       4.35(100,24)       3.85(107,24)       3.77(120,24)
   -373.      -390.    410.      33.71( 97, 8)      27.98(153, 8)      27.95(124, 8)      27.53(138, 8)      26.26(117, 8)
   -373.      -190.    418.      39.48( 97, 8)      33.43(138, 8)      31.96(153, 8)      31.45(124, 8)      31.20(352, 8)
   -373.      2010.    564.      28.72( 63, 8)      26.47( 62,24)      24.20( 62, 8)      23.55(  3, 8)      22.13( 90, 8)
   -373.      2210.    594.      25.30( 63, 8)      23.30(  3, 8)      21.99( 97, 8)      20.99( 62,24)      20.00( 62, 8)
   -373.      2410.    599.      21.95(  3, 8)      21.73(114, 8)      19.57( 97, 8)      17.90( 63, 8)      16.59(133, 8)
   -373.      4810.    598.      11.59(114, 8)       4.05(120,24)       3.77( 84,24)       3.49( 41, 8)       3.34( 78,24)
   -173.      -390.    402.      27.27(128,24)      26.69(146,24)      26.46(117, 8)      26.42( 97, 8)      26.29(138, 8)
   -173.      2410.    502.      29.54(115, 8)      19.90( 63, 8)      17.22( 62, 8)      17.13( 62,24)      16.82( 74, 8)
   -173.      4810.    609.      12.44(114, 8)       3.55( 41, 8)       3.12(120,24)       2.40(366, 8)       2.37( 84,24)
     27.     -2390.    366.       7.39( 97, 8)       7.06(195, 8)       6.17(  3, 8)       5.25(124,24)       5.17(355, 8)
     27.     -1390.    366.      18.58( 97, 8)      16.36(352, 8)      13.00(124, 8)      12.48(138, 8)      11.04(117, 8)
     27.      -590.    384.      24.46(146,24)      23.39(117, 8)      23.04(128,24)      22.86(124, 8)      21.10(153, 8)
     27.      -390.    392.      38.41(150, 8)      35.93(146,24)      26.61(124, 8)      26.50(117, 8)      26.19(137, 8)
     27.       610.    293.      63.87( 70, 8)      61.14( 73,24)      44.63(133, 8)      44.59(129, 8)      44.06(134,24)
     27.      1610.    502.      56.58(134, 8)      44.75(150,24)      36.41( 84, 8)      33.05(121, 8)      32.42(120,24)
     27.      2410.    428.      23.30(115,24)      17.35(115, 8)      15.66( 90, 8)      15.17( 63, 8)      14.75(133, 8)
     27.      2610.    489.      24.18(115, 8)      14.95( 63, 8)      14.69( 74, 8)      14.47( 90, 8)      14.34(133, 8)
     27.      3610.    555.      10.34( 97, 8)       9.53(114, 8)       8.56(  3, 8)       6.60( 79,24)       6.38( 77, 8)
     27.      4610.    605.       7.22(114, 8)       4.71(366, 8)       4.55( 97, 8)       3.77( 41, 8)       3.13(  3, 8)
     27.      4810.    609.       7.98(114, 8)       4.28(366, 8)       3.53( 41, 8)       3.52( 97, 8)       3.02(  3, 8)
     27.      5610.    487.       8.01(114, 8)       4.21(115, 8)       4.00(172,24)       3.47(109,24)       3.41( 92,24)
    227.      -590.    373.      34.78(150, 8)      32.92(146,24)      24.83(137, 8)      20.90(126, 8)      20.55(147,24)
    227.      2410.    426.      17.13( 91,24)      15.14(134, 8)      14.96(140, 8)      14.65(115, 8)      14.09(103,24)
    227.      4810.    608.       5.22( 97, 8)       4.80(114, 8)       4.60(366, 8)       3.40(351,24)       3.08( 41, 8)
    427.      -790.    365.      31.96(150, 8)      28.52(146,24)      21.91(137, 8)      19.24(126, 8)      18.43(147,24)
    427.      -590.    366.      42.31(150, 8)      32.30(137, 8)      29.21(126, 8)      28.85(146,24)      23.45(147,24)
    427.      2410.    424.      25.94(134, 8)      16.77( 91,24)      15.77( 62,24)      15.66(115, 8)      13.96(120,24)
    427.      4810.    575.       6.16( 97, 8)       4.03(366, 8)       4.02( 79,24)       4.02(351,24)       3.76(114, 8)
    627.      -790.    360.      36.70(150, 8)      27.06(137, 8)      25.59(126, 8)      21.66(146,24)      19.46(147,24)
    627.      2410.    408.      29.96(134, 8)      22.18(120,24)      16.42( 62,24)      16.20(115, 8)      15.91(132,24)
    627.      4810.    548.       4.93( 97, 8)       4.21( 79,24)       3.83(114, 8)       3.63( 62,24)       3.46(  3, 8)
    827.      -790.    355.      34.10(137, 8)      33.98(126, 8)      31.55(150, 8)      27.20(152, 8)      26.82(146,24)
    827.      2410.    372.      26.57(134, 8)      24.20(120,24)      17.99(150,24)      13.65(132,24)      12.80(122,24)
    827.      4810.    563.       5.48(  3, 8)       4.74(114, 8)       3.69( 62,24)       3.58( 77, 8)       3.50( 63, 8)
   1027.     -2390.    339.       8.45(153, 8)       8.27(117, 8)       7.71(135, 8)       7.34(124, 8)       7.16(146,24)
   1027.     -1390.    346.      24.74(150, 8)      15.13(146,24)      15.06(126, 8)      13.60(137, 8)      12.51(147,24)
   1027.      -790.    350.      33.40(152, 8)      31.72(137, 8)      31.54(126, 8)      29.97(150, 8)      29.52( 98, 8)
   1027.      -390.    351.      34.56( 98, 8)      30.58(152, 8)      28.72(119,24)      23.70(137, 8)      23.52(132,24)
   1027.       610.    320.      26.80( 95, 8)      25.95(149,24)      22.19( 89,24)      20.53(135,24)      20.41(123,24)
   1027.      1610.    398.      74.41( 70, 8)      47.11(140, 8)      45.06( 74, 8)      37.67(123,24)      33.97(122, 8)
   1027.      2410.    363.      21.30(134, 8)      19.94(150,24)      19.93(120,24)      13.07(122,24)      11.06(148,24)
   1027.      2610.    365.      21.66(134, 8)      18.41(120,24)      16.78(150,24)      11.93( 62,24)      11.81(118,24)
   1027.      3610.    422.       6.83(115,24)       6.63(173, 8)       6.43(172,24)       5.70( 90, 8)       5.53(104, 8)
   1027.      4610.    541.       6.10(  3, 8)       5.74( 81,24)       5.22(133, 8)       4.83(114, 8)       3.83( 63, 8)
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                                       HIGH FIVE TABLE FOR      8 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                         HIGHEST FIVE CONCENTRATIONS
       METERS                                                 VALUE(DAY,ENDING HOUR)

     X         Y      ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
---------------------------------------------------------------------------------------------------------------------------
     1027.     4810.   548.     5.87(  3, 8)       5.28( 81,24)       4.81(114, 8)       4.13(133, 8)       3.80(116,24)
     1027.     5610.   600.     3.52(113,24)       3.13( 97, 8)       2.84( 62,24)       2.76(114, 8)       2.40(116,24)
     1227.     -790.   344.    33.76(152, 8)      25.53( 98, 8)      25.00(137, 8)      23.57(127, 8)      22.96(150, 8)
     1227.     2410.   355.    18.23(134, 8)      16.68( 86,24)      13.51(150,24)      12.58( 93, 8)      12.23(120,24)
     1227.     4810.   585.     5.39(  3, 8)       4.96(133, 8)       3.97(114, 8)       3.54( 63, 8)       3.46( 70, 8)
     1427.     -990.   337.    28.96(152, 8)      24.19( 98, 8)      21.84(137, 8)      20.89(127, 8)      18.68(135, 8)
     1427.     -790.   338.    27.37( 98, 8)      23.42(152, 8)      22.63( 94, 8)      21.73(119,24)      21.17(136, 8)
     1427.     2410.   346.    15.79(134, 8)      12.34(144,24)      11.68( 63, 8)      11.35(104, 8)       9.53( 93, 8)
     1427.     4810.   588.     4.46(133, 8)       3.68( 63, 8)       3.61(104, 8)       3.27(359, 8)       3.12(  3, 8)
     1627.    -1190.   331.    24.89(152, 8)      22.24( 98, 8)      19.31(137, 8)      18.70(127, 8)      16.78(148,24)
     1627.     -990.   332.    23.51( 98, 8)      21.09(152, 8)      21.06(136, 8)      18.77( 94, 8)      18.75(119,24)
     1627.     1610.   331.    21.58( 93, 8)      21.44(100,24)      20.93( 97,24)      19.07( 98,24)      18.27(144,24)
     1627.     1810.   331.    31.09( 93, 8)      28.36(122, 8)      17.10(100,24)      16.56(359, 8)      16.14( 89,24)
     1627.     2010.   332.    22.48(122, 8)      19.59(150,24)      18.43( 93, 8)      15.90( 94,24)      15.13( 88, 8)
     1627.     2210.   333.    17.79(150,24)      13.14(115, 8)      13.09( 41, 8)      13.00(134, 8)      12.97( 96, 8)
     1627.     2410.   337.    15.78(150,24)      13.42(134, 8)      12.39(104, 8)       9.60(106, 8)       9.55(114, 8)
     1627.     4810.   532.     3.76( 90, 8)       3.63( 81,24)       3.47(104, 8)       3.27( 63, 8)       3.22(133, 8)
     1627.     5010.   533.     3.83( 81,24)       3.81( 90, 8)       3.81(133, 8)       3.30( 63, 8)       2.81(359, 8)
     1827.    -1390.   325.    21.45(152, 8)      18.91( 98, 8)      17.16(137, 8)      16.80(127, 8)      16.30(135, 8)
     1827.    -1190.   326.    19.03(152, 8)      18.75( 98, 8)      15.92(119,24)      15.68(135, 8)      14.69(136, 8)
     1827.     1610.   321.    37.74(150,24)      26.71( 96, 8)      19.44( 86,24)      18.05(153,24)      17.07(115,24)
     1827.     5010.   486.     4.75(172,24)       4.38(173, 8)       3.82(115, 8)       3.43( 81,24)       3.38( 90, 8)
     2027.    -2390.   309.    16.03(150, 8)      10.47(126, 8)       8.29( 94, 8)       7.71(148,24)       7.60(146,24)
     2027.    -1390.   320.    17.14(152, 8)      16.17(135, 8)      15.86( 98, 8)      13.50(137, 8)      13.29(119,24)
     2027.     -390.   322.    41.83( 70, 8)      35.06( 73,24)      31.01(123, 8)      28.61(127, 8)      27.73(109, 8)
     2027.      610.   317.   110.80(140, 8)     100.69( 74, 8)      93.58(364, 8)      91.76( 94, 8)      89.48( 96,24)
     2027.     1410.   313.    71.01(114, 8)      60.27(115, 8)      41.94( 92,24)      37.29(104, 8)      37.08(115,24)
     2037.     1231.   311.   143.70(115, 8)     116.93(114, 8)      87.90(115,24)      74.98(116, 8)      70.11( 92,24)
     2027.     1610.   312.    37.18(114, 8)      23.82(115,24)      21.46( 81,24)      21.22(144,24)      21.14(115, 8)
     2027.     2610.   327.    10.05(134, 8)      10.01(144,24)       9.83(104, 8)       9.72(116, 8)       8.05(114, 8)
     2027.     3610.   342.    10.22(134, 8)       8.82(115, 8)       7.37(114, 8)       6.00( 62,24)       5.72( 98, 8)
     2027.     4610.   440.     5.00(114, 8)       4.95(172,24)       4.60(115,24)       4.52(173, 8)       4.01(104, 8)
     2027.     5010.   469.     4.61(172,24)       4.42(115,24)       4.31(173, 8)       4.10(104, 8)       3.80(114, 8)
     2027.     5610.   515.     3.88( 81,24)       3.09(133, 8)       3.05( 90, 8)       2.62(114, 8)       2.50( 63, 8)
     2227.    -1590.   313.    15.41(152, 8)      15.30( 98, 8)      12.92(137, 8)      12.41(135, 8)      11.47(136, 8)
     2227.      610.   311.   106.80(146,24)     101.20(127, 8)      93.39(137, 8)      87.80(153, 8)      86.16(150, 8)
     2227.      810.   310.    84.80(115, 8)      71.54(115,24)      71.16(114, 8)      66.22(146,24)      63.61( 70, 8)
     2227.     1210.   305.    61.02(115, 8)      59.28(134, 8)      49.83(115,24)      44.11(120,24)      43.27(114, 8)
     2227.     1410.   305.    40.86(115, 8)      32.09(115,24)      31.45(134, 8)      28.95(114, 8)      20.79(120,24)
     2227.     5010.   438.     5.72(114, 8)       4.47(172,24)       4.39(115,24)       4.20(173, 8)       3.22(104, 8)
     2427.    -1590.   309.    17.52(124, 8)      16.54( 98, 8)      15.66( 94, 8)      15.01(136, 8)      13.36(119,24)
     2427.      410.   307.    62.58( 95, 8)      56.87(123, 8)      55.63(150, 8)      50.11(137, 8)      48.16(134,24)
     2427.      610.   304.    65.04(123, 8)      55.23(109, 8)      53.79( 95, 8)      53.73(134, 8)      51.86(149,24)
     2427.      810.   305.    52.43(123, 8)      51.99( 70, 8)      40.99(359, 8)      40.19(133, 8)      39.74( 73,24)
     2427.     1210.   305.    38.61( 89,24)      38.46(115,24)      29.93(115, 8)      29.66(134, 8)      29.14(359, 8)
     2427.     5010.   426.     5.63(114, 8)       4.42(115,24)       4.31(172,24)       4.07(173, 8)       2.86(140,24)
     2627.    -1590.   304.    13.31(119,24)      12.81(150, 8)      12.22( 92, 8)      11.44(136, 8)      11.06(132,24)
     2627.    -1390.   304.    13.56(150, 8)      10.91(109, 8)      10.20( 92, 8)       9.63( 85, 8)       9.57(152, 8)
     2627.     -390.   305.    29.82(153, 8)      27.33(117, 8)      25.58(135,24)      24.62(146,24)      21.74(128,24)
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                                       HIGH FIVE TABLE FOR      8 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                         HIGHEST FIVE CONCENTRATIONS
       METERS                                                 VALUE(DAY,ENDING HOUR)

     X         Y      ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
---------------------------------------------------------------------------------------------------------------------------
     2627.     -190.   304.    50.87(150, 8)      46.52(146,24)      43.24(137, 8)      40.66(126, 8)      34.79(127, 8)
     2627.       10.   305.    54.30(150, 8)      47.86(134,24)      41.13(137, 8)      39.32(146,24)      37.84( 95, 8)
     2627.      210.   305.    44.30(150, 8)      41.64(127, 8)      40.08(152, 8)      39.70(123, 8)      38.74(137, 8)
     2627.      410.   305.    39.54( 95, 8)      36.58(149,24)      36.09( 70, 8)      35.36(152, 8)      34.34( 92, 8)
     2627.      610.   305.    34.59(123, 8)      32.02( 70, 8)      30.02(134, 8)      28.12(149,24)      27.60( 92, 8)
     2627.      810.   305.    33.83(134, 8)      31.21(359, 8)      28.54(123, 8)      28.29( 91,24)      25.94(149,24)
     2627.     1010.   305.    27.85(359, 8)      27.68( 89,24)      25.94(115,24)      25.54( 91,24)      24.69( 99,24)
     2627.     1210.   305.    24.75( 89,24)      23.21(115,24)      22.53(359, 8)      21.82( 88, 8)      21.20(150,24)
     2262.      433.   311.   153.53(137, 8)*    151.72(146,24)*     142.25(150, 8)     131.71(134,24)     127.63(127, 8)
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  2627.      5010.    380.        5.41(114, 8)      4.17(172,24)      4.09(115, 8)      4.03(115,24)      3.93(173, 8)
  2827.     -1390.    301.       12.40(138, 8)     11.73( 97, 8)     11.57(151, 8)     11.44(148,24)     11.26(137, 8)
  2827.     -1190.    302.       16.39(138, 8)     15.00(352, 8)     14.99( 97, 8)     14.70(135, 8)     14.18(123, 8)
  2827.      -990.    302.       16.68(138, 8)     16.41(109, 8)     16.26(352, 8)     15.17( 97, 8)     14.67(123, 8)
  2827.      -790.    302.       20.35( 70, 8)     16.19(117, 8)     15.85( 87,24)     14.04(153, 8)     13.69(128,24)
  2827.      -590.    303.       24.16(146,24)     22.53(153, 8)     20.54(127, 8)     17.55(134,24)     17.33(117, 8)
  2827.      -390.    303.       35.40(150, 8)     32.43(146,24)     28.56(137, 8)     27.52(126, 8)     26.81(127, 8)
  2827.      -190.    303.       41.05(150, 8)     33.90(152, 8)     33.73(137, 8)     30.40(127, 8)     26.72(146,24)
  2827.        10.    303.       32.35(150, 8)     32.26(152, 8)     30.69(127, 8)     30.07(137, 8)     26.03(151, 8)
  2827.      5010.    358.        5.78(114, 8)      4.58(115, 8)      3.79(172,24)      3.57(173, 8)      3.07(115,24)
  3027.     -2390.    297.       10.73(137, 8)     10.06(152, 8)      9.77( 98, 8)      9.68(127, 8)      8.56(148,24)
  3027.     -1390.    298.       11.73(138, 8)     10.40(109, 8)     10.14(117, 8)      9.98(352, 8)      9.96(152, 8)
  3027.      -390.    300.       30.71(150, 8)     26.93(137, 8)     26.75(152, 8)     26.61(127, 8)     24.01(151, 8)
  3027.       610.    301.       19.30( 70, 8)     18.97(149,24)     17.46(359, 8)     17.00(123, 8)     16.97(135,24)
  3027.      1610.    302.       15.22(134, 8)     13.58(115,24)     12.99( 89,24)     12.81(150,24)     10.98( 88, 8)
  3027.      2610.    303.       11.02(115, 8)      9.40(115,24)      6.87( 84, 8)      6.58(150,24)      5.93(116, 8)
  3027.      3610.    305.        7.75(115, 8)      6.80(134, 8)      6.06(120,24)      5.47(116, 8)      5.11(150,24)
  3027.      4610.    333.        8.38(115, 8)      5.62(134, 8)      4.37(114, 8)      4.16(116, 8)      3.57( 98, 8)
  3027.      5010.    348.        6.05(115, 8)      4.69(114, 8)      3.44( 91,24)      3.42(172,24)      3.23(173, 8)
  3027.      5610.    372.        4.74(114, 8)      4.24(115,24)      4.07(115, 8)      3.64(172,24)      3.60(173, 8)
  3227.      5010.    338.        6.58(115, 8)      3.59( 91,24)      3.27(134, 8)      3.25(116, 8)      3.10(172,24)
  3227.      5210.    345.        5.43(115, 8)      3.19(172,24)      3.14( 91,24)      3.13(114, 8)      3.07(173, 8)
  3227.      5610.    362.        4.57(115, 8)      3.84(115,24)      3.58(114, 8)      3.43(172,24)      3.39(173, 8)
  3227.      6010.    373.        4.20(115,24)      4.17(115, 8)      3.81(114, 8)      3.43(173, 8)      3.39(172,24)

* - DENOTES PEAK VALUE
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                   POSTZ                (DATED 86224)
1                                                                                                        POSTZ - PAGE NO.   1



                                         POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                  POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - CO - 04/20/92 - MPV
                  SHORTZ RUN TITLE:  ********************************************************************************

                  ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                                 0
                  ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                           0
                  ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                             0
                  ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)                  0
                  ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                            0

             1-HOUR AVERAGE ANALYSIS:
                  ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                                1
                  ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                                0
                  ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                            0

             3-HOUR AVERAGE ANALYSIS:
                  ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                                0
                  ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                               0
                  ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

             8-HOUR AVERAGE ANALYSIS:
                  ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                               1
                  ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                               0
                  ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

             24-HOUR AVERAGE ANALYSIS:
                  ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                               0
                  ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                               0
                  ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

             ANNUAL AVERAGE ANALYSIS:
                  ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                               0
                  ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                               0
                  ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

             USER-SPECIFIED AVERAGING TIME ANALYSIS
                  ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                               0
                  ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                               0
                  ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                           0

                  ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                                    0
                  ISW(25) CALMS POLICY (1=YES,0=NO)                                                        0


                  JULIAN DAY FOR START OF ANALYSIS                                                         1
                  YEAR FOR START OF ANALYSIS                                                              91
                  JULIAN DAY FOR END OF ANALYSIS                                                           5
                  YEAR FOR END OF ANALYSIS                                                                92
1                                                                                                        POSTZ - PAGE NO.   2



                                             HIGH FIVE TABLE FOR     1 HOUR AVERAGES

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
       METERS                                                   VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.         HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
----------------------------------------------------------------------------------------------------------------------------------
     2327.       410.    310.      186.97(137, 5)      173.08( 98, 4)      173.08(153,22)      172.05( 77, 3)      169.97(138, 1)
     2427.       410.    307.      136.74(123, 1)      136.74(138, 5)      136.48(123, 3)      136.48(134,19)      131.67(109, 4)
     2527.       410.    305.      104.71(127, 2)      101.40( 97,24)      101.40( 98, 6)      101.40(151,24)       99.70(114, 6)
     2627.       410.    305.       98.93( 92, 4)       98.93(123, 2)       98.93(150, 7)       97.32( 77, 2)       97.32( 94, 3)
     2262.       433.    311.      281.25(117, 6)*     272.68(153, 2)*     256.49( 87,22)      256.49(132,24)      236.30(146,20)
     2262.       510.    312.      202.43( 98, 4)      202.43(153,22)      194.18( 97,24)      194.18( 98, 6)      194.18(151,24)
     2327.       510.    309.      160.37(132,19)      149.21( 98, 3)      149.21(134, 6)      148.46(148, 6)      145.79(118,24)
     2427.       510.    304.      131.32(114, 6)      127.52( 98, 5)      126.73(127, 2)      126.41(298, 6)      118.27( 97,24)
     2527.       510.    304.      117.03( 77, 2)      117.03( 94, 3)      115.04( 92, 5)      111.41( 92, 4)      111.41(123, 2)
     2627.       510.    305.       91.03(109, 4)       90.24(151, 6)       89.40(123, 1)       89.40(138, 5)       87.37(123, 3)
     2227.       610.    311.      204.31(153, 2)      202.27( 87,22)      202.27(132,24)      190.67(124, 3)      185.32(117, 6)
     2327.       610.    308.      165.60( 98, 5)      162.39( 92, 4)      162.39(123, 2)      162.39(150, 7)      160.85(114, 6)
     2427.       610.    304.      139.79( 92, 5)      137.95( 93, 2)      131.65( 77, 2)      131.65( 94, 3)      131.48( 73,22)
     2527.       610.    305.      114.44(151, 6)      106.46(123, 4)       98.26(123, 3)       98.26(134,19)       97.54(125,20)
     2627.       610.    305.      103.62(123, 4)       98.77(151, 6)       71.47( 87, 1)       70.57(125,20)       69.79(148,18)
    2227.        710.     311.      218.16( 92, 4)      218.16(123, 2)      218.16(150, 7)      213.87( 98, 5)      213.67( 77, 2)
    2327.        710.     308.      163.52( 73,22)      163.52( 85, 1)      163.52( 95, 4)      161.81(109, 4)      153.09( 93, 2)
    2427.        710.     306.      105.26(123, 4)       93.82(151, 6)       90.02(136, 5)       90.02(153,23)       90.01(124, 5)
    2527.        710.     304.       98.21(123, 4)       89.89( 73,23)       83.91(151, 6)       83.81(136, 5)       83.80(153,23)
    2627.        710.     305.       91.91(123, 4)       79.39(136, 5)       79.38(153,23)       79.37(124, 5)       79.20( 92, 1)
    2227.        810.     310.      150.69(136, 5)      150.69(124, 5)      150.69(153,23)      139.36(123, 4)      133.69(366, 6)
    2327.        810.     307.      132.67(136, 5)      132.67(153,23)      132.67(124, 5)      124.18( 73,23)      122.40(123, 4)
    2427.        810.     305.      120.44(136, 5)      120.44(153,23)      120.44(124, 5)      106.62(123, 4)       95.75(359, 2)
    2527.        810.     304.      111.01(136, 5)      111.01(153,23)      111.01(124, 5)       94.56(123, 4)       86.59(359, 2)
    2627.        810.     305.      103.28(136, 5)      103.27(153,23)      103.27(124, 5)       85.52(123, 4)       79.39(359, 2)

* - DENOTES PEAK VALUE
1                                                                                                   POSTZ - PAGE NO.   3


                                           HIGH FIVE TABLE FOR     8 HOUR AVERAGES

 RECEPTOR COORDINATES                                     HIGHEST FIVE CONCENTRATIONS
      METERS                                               VALUE(DAY,ENDING HOUR)

   X           Y        ELEV.         HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------------
    2327.        410.     310.      108.50(137, 8)      104.25(152, 8)      103.70(150, 8)      102.59(127, 8)       93.89(146,24)
    2427.        410.     307.       62.58( 95, 8)       56.87(123, 8)       55.63(150, 8)       50.11(137, 8)       48.16(134,24)
    2527.        410.     305.       49.85(127, 8)       48.59(137, 8)       46.10(152, 8)       44.73( 88, 8)       42.68(151, 8)
    2627.        410.     305.       39.54( 95, 8)       36.58(149,24)       36.09( 70, 8)       35.36(152, 8)       34.34( 92, 8)
    2262.        433.     311.      153.53(137, 8)*     151.72(146,24)*     142.25(150, 8)      131.71(134,24)      127.63(127, 8)
    2262.        510.     312.       98.84(123, 8)       93.00( 98, 8)       87.80(134,24)       86.61(114, 8)       86.58(132,24)
    2327.        510.     309.       89.48(115, 8)       82.19(146,24)       70.76(134, 8)       67.66(126, 8)       66.67(127, 8)
    2427.        510.     304.       67.26(127, 8)       63.50(137, 8)       62.14(152, 8)       54.00(151, 8)       52.99( 70, 8)
    2527.        510.     304.       48.55(123, 8)       48.10( 70, 8)       46.59( 92, 8)       42.89( 95, 8)       40.06(150, 8)
    2627.        510.     305.       41.44(123, 8)       35.58(149,24)       34.05( 70, 8)       30.69( 95, 8)       30.49(134, 8)
    2227.        610.     311.      106.80(146,24)      101.20(127, 8)       93.39(137, 8)       87.80(153, 8)       86.16(150, 8)
    2327.        610.     308.       86.78(127, 8)       83.38(152, 8)       81.50(137, 8)       77.83( 70, 8)       72.14(150, 8)
    2427.        610.     304.       65.04(123, 8)       55.23(109, 8)       53.79( 95, 8)       53.73(134, 8)       51.86(149,24)
    2527.        610.     305.       46.48(123, 8)       37.87(149,24)       36.42(134, 8)       35.69( 70, 8)       34.18(151, 8)
    2627.        610.     305.       34.59(123, 8)       32.02( 70, 8)       30.02(134, 8)       28.12(149,24)       27.60( 92, 8)
    2227.        710.     311.      116.10(150, 8)      114.66(137, 8)      113.46(152, 8)      111.57(114, 8)      107.47(127, 8)
    2327.        710.     308.       68.32(123, 8)       65.16( 95, 8)       52.76(134,24)       52.12(149,24)       52.07(109, 8)
    2427.        710.     306.       48.77(115, 8)       43.76( 70, 8)       41.61(127, 8)       40.94(134, 8)       40.78(115,24)
    2527.        710.     304.       40.63( 70, 8)       37.76(134, 8)       37.56(123, 8)       34.61( 92, 8)       32.70( 88, 8)
    2627.        710.     305.       36.72(123, 8)       35.26( 70, 8)       29.93(134, 8)       28.63(359, 8)       28.14(149,24)
    2227.        810.     310.       84.80(115, 8)       71.54(115,24)       71.16(114, 8)       66.22(146,24)       63.61( 70, 8)
    2327.        810.     307.       60.49( 70, 8)       56.99(127, 8)       56.24(114, 8)       52.24( 88, 8)       51.62(152, 8)
    2427.        810.     305.       52.43(123, 8)       51.99( 70, 8)       40.99(359, 8)       40.19(133, 8)       39.74( 73,24)
    2527.        810.     304.       41.13(123, 8)       35.18(134, 8)       34.30(359, 8)       33.00(149,24)       31.52( 70, 8)
    2627.        810.     305.       33.83(134, 8)       31.21(359, 8)       28.54(123, 8)       28.29( 91,24)       25.94(149,24)

* - DENOTES PEAK VALUE
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                 POSTZ                (DATED 86224)
1                                                                                                            POSTZ - PAGE NO.   1



                                              POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                     POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - SOX - 04/20/92 - MPV
                     SHORTZ RUN TITLE:  ********************************************************************************

                     ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                          0
                     ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                    0
                     ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                      0
                     ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)           0
                     ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                     0

                1-HOUR AVERAGE ANALYSIS:
                     ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         1
                     ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                         0
                     ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

                3-HOUR AVERAGE ANALYSIS:
                     ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         1
                     ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
                     ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

                8-HOUR AVERAGE ANALYSIS:
                     ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                     ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
                     ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

                24-HOUR AVERAGE ANALYSIS:
                     ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                     ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
                     ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

                ANNUAL AVERAGE ANALYSIS:
                     ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                     ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
                     ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

                USER-SPECIFIED AVERAGING TIME ANALYSIS
                     ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                     ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
                     ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

                     ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                             0
                     ISW(25) CALMS POLICY (1=YES,0=NO)                                                 0


                     JULIAN DAY FOR START OF ANALYSIS                                                  1
                     YEAR FOR START OF ANALYSIS                                                       91
                     JULIAN DAY FOR END OF ANALYSIS                                                    5
                     YEAR FOR END OF ANALYSIS                                                         92
1                                                                                                            POSTZ - PAGE NO.   2


                                                 HIGH FIVE TABLE FOR     1 HOUR AVERAGES

 RECEPTOR COORDINATES                                                HIGHEST FIVE CONCENTRATIONS
       METERS                                                         VALUE(DAY,ENDING HOUR)

    X            Y       ELEV.         HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------------
   -5973.      -2390.     798.        0.90(151, 9)        0.89( 97,18)        0.89(120,19)        0.81(107, 8)        0.71(355, 8)
   -5973.      -1390.     793.        3.35( 51, 3)        2.02(106, 7)        1.41(108, 8)        1.34( 71,16)        1.27(137, 8)
   -5973.       -390.     781.        7.40(  7,22)        3.83( 68, 6)        2.67( 77, 7)        2.66(124, 8)        2.54( 75, 7)
   -5973.        610.     852.        3.25( 92, 8)        2.50( 82, 8)        2.39( 70, 9)        2.18( 93,18)        1.86(153, 9)
   -5973.       1610.     731.        3.76( 74, 4)        3.32( 70, 7)        2.61(122,18)        2.49(134, 8)        2.10( 70, 8)
   -5973.       2610.     730.        3.85( 74, 1)        2.41( 45,24)        2.29(132,18)        2.19(136,18)        2.10( 98,18)
   -5973.       3610.     728.        1.69( 74, 2)        1.54( 77, 6)        1.54( 98,19)        1.22( 95, 8)        1.20( 92, 7)
   -5973.       4610.     747.        1.44(  5,21)        1.19( 74, 4)        0.99(151, 8)        0.90(145,18)        0.84( 70, 7)
   -5973.       5610.     625.        1.09( 74, 2)        0.91( 37,22)        0.88( 74, 4)        0.83( 70, 7)        0.83(151, 8)
   -4973.      -2390.     797.        1.65(117, 8)        1.26(114, 8)        1.10(115, 8)        0.90( 79, 8)        0.80( 25,19)
   -4973.      -1390.     731.        5.24( 74, 5)        3.30(120,19)        2.75( 52, 4)        2.33( 78, 7)        2.29( 29,22)
   -4973.       -390.     652.        7.83(120,19)        6.70(151, 9)        6.65(117, 7)        6.42( 61,22)        5.69(106, 8)
   -4973.       1610.     771.        7.14(100,19)        6.38(107,19)        4.42( 95, 8)        4.36( 77, 6)        3.94(111,18)
   -4973.       2610.     792.        3.26( 37,22)        3.19( 74, 2)        2.11(152, 8)        1.84(153, 8)        1.76(129,18)
   -4973.       3610.     904.        1.88( 75,20)        1.48(132,18)        1.39(125,18)        1.26(136,18)        1.22( 98,18)
   -4973.      4610.    858.        1.55(100,19)        1.16(107,19)        0.81( 70, 8)        0.78(122,18)        0.71(150,17)
   -4973.      5610.    570.        0.91(147, 7)        0.89( 74, 4)        0.76(218, 8)        0.71( 77, 6)        0.71( 70, 7)
   -4773.       410.    646.       23.22( 95,19)       18.18(112,19)       16.09(135, 8)       15.91(126, 8)       14.34( 88, 8)
   -4773.       610.    669.       22.79( 74, 4)       20.67(151, 8)       17.74( 70, 7)       17.32( 44, 4)       17.31(100,18)
   -4773.       810.    666.       11.19( 44,23)       11.02( 74, 2)       10.79(120,18)       10.13(104, 8)       10.09( 94,19)
   -4773.      1010.    695.       14.65( 74, 1)       11.18( 45,24)       11.06(132,18)       10.95(136,18)       10.67( 98,18)
   -4773.      1210.    730.       11.14(100,19)        9.18(107,19)        7.38( 82, 7)        6.29(144,17)        6.24( 95, 8)
   -4773.      1210.    730.       11.14(100,19)        9.18(107,19)        7.38( 82, 7)        6.29(144,17)        6.24( 95, 8)
   -4573.       410.    633.       48.14( 98,19)       29.07(123,15)       27.48( 94, 8)       27.12(113, 9)       25.71( 72,21)
   -4573.      1210.    722.        9.32(  5,21)        9.20( 37,22)        7.09(148,17)        6.78(153, 8)        6.13(149,17)
   -4573.      4810.    853.        0.90( 77, 6)        0.79(135,18)        0.76( 70, 8)        0.76(122,18)        0.76(148,17)
   -4373.        10.    609.       39.62( 50, 4)       28.71( 61,22)       27.81(107, 5)       26.83(  1,16)       25.79(  1,17)
   -4373.       210.    554.       11.50( 72,20)        9.21( 77, 5)        8.70( 43, 7)        8.66(107, 2)        7.59(354, 6)
   -4373.       410.    583.       20.22( 93,19)       18.30( 25,16)       17.20( 74,17)       17.16( 39,14)       17.02( 66,19)
   -4373.      1410.    694.        6.14(104, 4)        5.44( 75,20)        5.15(150,17)        4.88(135,18)        4.56(107,18)
   -4373.      1610.    756.        4.60(135,18)        4.01(151, 8)        3.78(107,18)        3.69( 73, 5)        3.63( 89,19)
   -4373.      1610.    756.        4.60(135,18)        4.01(151, 8)        3.78(107,18)        3.69( 73, 5)        3.63( 89,19)
   -4373.      4810.    856.        1.18(144,18)        0.87(148,17)        0.76(122,18)        0.73( 70, 8)        0.73(145,18)
   -4173.        10.    553.       12.74(  1,11)       10.44( 27,17)        7.62( 19,12)        7.32(107, 4)        6.83( 26,14)
   -4173.      1610.    787.        5.93( 74, 4)        5.88(144,18)        5.72(104, 6)        5.28(133,18)        4.54( 32,21)
   -4173.      4810.    828.        1.33(104, 6)        0.96(133,18)        0.92(145,18)        0.92(144,18)        0.74(122,18)
   -3973.     -2390.    767.        3.43( 74, 5)        2.92( 73,24)        2.76( 23, 4)        2.14( 23, 2)        1.94(107, 7)
   -3973.     -1390.    732.        5.54( 92, 6)        5.40( 60, 2)        4.70( 22,24)        4.57( 30, 4)        4.44(  1,21)
   -3973.      -390.    548.        9.20( 96,23)        5.91( 46, 3)        4.04( 27,20)        3.99( 43,24)        3.97( 15,21)
   -3973.        10.    549.       12.01( 57, 3)       11.76( 48, 7)       11.40(  3, 4)       10.72( 12, 6)       10.72( 16, 2)
   -3973.       610.    722.       27.43( 28,20)       26.54(133, 1)       25.97( 37,23)       25.87( 51, 1)       25.77(366, 6)
   -3973.      1610.    773.        6.57(120,22)        5.85(100,22)        5.81(134,18)        5.27( 84,20)        4.81( 74, 2)
   -3973.      2610.    875.        2.05(139,18)        1.93(100,19)        1.68( 88,19)        1.52(118,18)        1.51(147,17)
   -3973.      3610.    914.        1.46(148,17)        1.21(149,17)        1.11(122,18)        1.07( 70, 8)        1.04(129,18)
   -3973.      4610.    954.        1.02(145,18)        0.84(132,18)        0.79(122,18)        0.66( 83,19)        0.59(133,18)
   -3973.      4810.    838.        0.96(145,18)        0.95(132,18)        0.76(152, 8)        0.69(122,18)        0.68(136,18)
   -3973.      5610.    686.        1.15( 74, 2)        0.81( 84,22)        0.74( 74, 1)        0.73( 84,23)        0.73(120,18)
   -3773.        10.    549.        9.51( 34,20)        8.55( 56,20)        8.38( 23,24)        7.50( 18, 6)        7.33( 33,20)
   -3773.      1610.    755.        7.14(366, 6)        5.22( 74, 2)        4.56( 40, 5)        4.37(  3, 8)        4.10(120,18)
1                                                                                                         POSTZ - PAGE NO.   3


                                              HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
        METERS                                                   VALUE(DAY,ENDING HOUR)

     X          Y      ELEV.           HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------------
   -3773.      1810.    792.        3.99(145,18)        2.94( 40, 5)        2.85(109, 8)        2.78( 68,20)        2.74( 29,21)
   -3773.      2010.    824.        4.03(132,18)        3.42(136,18)        3.32( 98,18)        3.28(145,18)        2.71(134,18)
   -3773.      4810.    839.        1.00(132,18)        0.81(145,18)        0.80(136,18)        0.80( 98,18)        0.67(152, 8)
   -3573.        10.    549.       17.40(  7,22)       14.93(107, 3)        9.87( 68, 6)        6.71( 75, 7)        6.46( 35,20)
   -3573.      2010.    848.        5.17(366, 6)        4.04(100,19)        3.44(  3, 8)        2.54(147,17)        2.30(133,17)
   -3573.      4810.    852.        1.13( 75,20)        0.93(125,18)        0.84(132,18)        0.82(134,18)        0.75(136,18)
   -3373.        10.    549.        7.74(  7,22)        6.17( 50, 6)        5.76(103,17)        5.47( 75, 7)        4.98(107, 3)
   -3373.      2010.    799.        4.44( 77, 6)        4.27(146,18)        4.00(100,19)        3.99(107,19)        3.68( 95, 8)
   -3373.      4810.    831.        1.09(100,19)        1.09(134,18)        0.87( 75,20)        0.78(120,18)        0.76(129,18)
   -3273.      2010.    787.        4.41( 77, 6)        4.35(  5,21)        3.68(122,19)        3.63(148,17)        3.34( 29, 1)
   -3273.      2210.    841.        3.74(146,18)        3.66( 98,19)        3.32(148,17)        2.97(139,18)        2.80(149,17)
   -3273.      2410.    862.        2.81(  3,20)        2.68(146,18)        2.45( 73,19)        2.43(139,18)        2.01(146,17)
   -3173.        10.    567.       26.13( 96,23)       20.85( 46, 3)       20.35(102, 2)       10.91( 93,17)       10.47(103,17)
   -3173.      2410.    841.        3.28(146,18)        2.83( 96, 7)        2.64(152, 8)        2.53( 98,19)        2.35( 73,19)
   -3173.      4810.    806.        1.24(100,19)        0.88(120,18)        0.87(107,19)        0.87( 77, 6)        0.80( 95, 8)
   -2973.     -2390.    661.        3.55( 84,24)        2.87( 99,19)        2.77( 23, 5)        2.61(106, 5)        2.46( 58,24)
   -2973.     -1390.    613.        4.99(108, 5)        4.88( 85,20)        4.74(146,21)        4.73(114,19)        4.50( 40, 3)
   -2973.      -390.    609.       12.39( 74, 5)       11.52( 69, 3)       11.49( 52, 4)       10.99( 92, 3)       10.59( 53, 4)
   -2973.        10.    601.       19.36(120,19)       18.82(107, 5)       18.21( 61,22)       16.99(117, 7)       16.65(151, 9)
   -2973.       610.    579.       24.34( 64, 2)       21.89(107,20)       18.99(364, 6)       18.34( 96, 7)       18.04(105,18)
   -2973.      1610.    823.        4.73(148,17)        4.68(  2,20)        4.16(152, 8)        4.13(149,17)        4.07(110,19)
   -2973.      2410.    784.        4.08( 74, 4)        3.87(151, 8)        3.35( 70, 7)        3.27( 75,20)        3.12(122,19)
   -2973.      2610.    786.        4.35( 74, 4)        3.46( 70, 7)        3.03( 75,20)        2.81(151, 8)        2.72( 62, 3)
   -2973.      3610.    865.        2.20(366, 6)        1.64(132,18)        1.60(145,18)        1.25(136,18)        1.24( 98,18)
   -2973.      4610.    770.        1.30(100,19)        1.29( 74, 2)        1.15( 77, 6)        0.97( 95, 8)        0.95(107,19)
   -2973.      4810.    747.        1.48( 74, 2)        1.21( 77, 6)        1.05(100,19)        0.95( 95, 8)        0.94(120,18)
   -2973.      5610.    642.        1.30(113,23)        0.97(145,18)        0.96(114, 3)        0.92(  5,21)        0.75(140, 7)
   -2773.        10.    609.       26.78(  3, 1)       25.59( 74, 3)       24.47( 68,21)       23.76( 64, 3)       23.17( 47,23)
   -2773.      2410.    731.        5.03( 74, 4)        4.23( 70, 7)        3.84(151, 8)        3.45( 10, 3)        3.43( 70, 6)
   -2773.      4810.    724.        1.25( 77, 6)        1.23(366, 6)        1.19( 74, 2)        1.00(144,18)        1.00( 32,21)
   -2573.        10.    587.       40.88( 69, 5)       40.22(  2,24)       39.85(  2,23)       39.27( 18, 1)       35.27( 17, 3)
   -2573.      2410.    732.        5.08( 74, 2)        4.50( 74, 4)        4.06(144,18)        4.00(104, 6)        3.58( 70, 7)
   -2573.      4810.    713.        1.63(104, 6)        1.48(366, 6)        1.31(144,18)        1.18(  5,21)        0.92(145,18)
   -2373.        10.    574.       36.99(  1,21)       36.22( 33, 3)       35.21( 17, 2)       34.91( 30, 4)       34.55( 22,24)
   -2373.      2410.    726.        5.51( 74, 2)        4.02(100,22)        4.00(120,18)        3.44( 84,20)        3.21(129,18)
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    -2373.      4810.    700.        1.15( 11,22)        1.11(145,18)        1.07(  5,21)        1.04( 78, 3)         0.91(133,18)
    -2173.        10.    564.       30.10( 52, 2)       27.84( 10,24)       27.80( 40, 3)       26.94(  2,21)        26.79(114,19)
    -2173.      2410.    675.        4.86(120,22)        4.59(114, 2)        4.34(114, 1)        3.91(114, 3)         3.86(134,18)
    -2173.      4810.    675.        1.41( 74, 1)        1.40(100,22)        1.19(145,18)        1.13( 84,20)         1.11(132,18)
    -1973.     -2390.    487.        2.61(114,20)        2.15(117, 7)        2.12(355, 3)        2.08( 61,22)         1.99(152,21)
    -1973.     -1390.    522.        3.90(118,21)        3.85( 22, 1)        3.79( 65, 4)        3.75( 17, 1)         3.70(  2,22)
    -1973.      -390.    487.        4.84( 11, 3)        4.16( 15,20)        3.98( 60, 4)        3.47( 20,22)         3.44(142,24)
    -1973.      -190.    526.       14.28( 20,21)       14.09(105,23)       11.15(128, 3)       10.07(128,23)         9.78(149, 4)
    -1973.        10.    549.       23.12( 59, 2)       20.41(132,23)       20.09(119,19)       20.08(119,21)        18.89(144,20)
    -1973.       210.    549.       27.45( 59,24)       26.57( 53, 1)       26.08( 78, 5)       25.61(133, 5)        25.49(153, 6)
    -1973.       410.    547.       50.61( 60,22)*      48.96(105,24)*      48.53( 77,21)       48.30(127,23)        47.52(145,20)
    -1973.       610.    479.        9.81(149, 1)        9.01( 96,23)        8.60( 42,18)        8.34( 47,19)         8.19( 42,16)
    -1973.      1610.    768.        8.26( 74, 4)        8.12(151, 8)        7.93(139,18)        7.51( 98,19)         6.96( 70, 7)
    -1973.      2410.    675.        4.00( 74, 1)        3.34(132,18)        3.23(145,18)        2.90(114, 3)         2.90(114, 4)
1                                                                                                          POSTZ - PAGE NO.   4


                                             HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                  HIGHEST FIVE CONCENTRATIONS
      METERS                                                            VALUE(DAY,ENDING HOUR)

     X           Y        ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH             5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------------
    -1973.      2610.    799.        2.93( 77, 6)        2.89(132,18)        2.70(100,19)        2.67(  2,20)         2.63(145,18)
    -1973.      3610.    696.        3.00(120,22)        2.06(134,18)        1.83(  5,21)        1.82( 10, 3)         1.63(133, 1)
    -1973.      4610.    628.        1.62( 74, 1)        1.51( 96,22)        1.41( 77, 4)        1.26(145,18)         1.21(104, 4)
    -1973.      4810.    646.        1.52( 74, 1)        1.41( 96,22)        1.27(145,18)        1.25(100,22)         1.22(132,18)
    -1973.      5610.    597.        1.32( 74, 1)        1.32(100,22)        1.23( 96,22)        1.12(107,21)         1.06( 84,20)
    -1773.      -790.    529.        6.14(152,24)        5.83( 61,24)        5.82(153, 1)        5.74( 79, 5)         5.69(  2,21)
    -1773.      -590.    497.        4.67(  2,21)        4.53(351, 5)        4.28( 68,24)        3.82( 52, 2)         3.80(143,18)
    -1773.       210.    539.       20.51( 11, 2)       20.36( 78, 2)       20.09( 99,23)       19.19(152,22)        19.17(109, 5)
    -1773.       410.    491.       11.53( 40, 2)       10.76(100, 5)       10.60( 52,19)       10.30(118, 3)        10.12(118, 4)
    -1773.      2410.    668.        4.93(366, 6)        4.05( 74, 1)        3.85(114, 4)        3.56( 77, 6)         3.33(100,19)
    -1773.      4810.    609.        1.95(120,22)        1.83(114, 2)        1.73(114, 1)        1.39( 77, 4)         1.39( 74, 1)
    -1573.     -1190.    433.        3.25(363,21)        2.93(351, 5)        2.83(355, 4)        2.72(364, 1)         2.52(363,22)
    -1573.      -990.    459.        4.47(351, 5)        3.52(363,21)        3.43(355, 4)        3.02( 96,23)         2.74(364, 1)
    -1573.      -790.    482.        4.71(351, 5)        3.82(363,21)        3.39(355, 4)        3.01(  3, 5)         2.93(363,22)
    -1573.      -590.    487.        4.72(351, 5)        4.16(363,21)        3.67(  3, 5)        3.56(355, 4)         3.35(149, 1)
    -1573.      -390.    465.        5.16(351, 5)        4.46(363,21)        4.19( 74, 5)        3.92(355, 4)         3.61(  3, 5)
    -1573.      -190.    475.        5.75(351, 5)        5.11(  3, 1)        4.84( 74, 3)        4.43(117, 5)         4.37(355, 4)
    -1573.        10.    505.        9.72( 60, 3)        8.39(133, 4)        8.39(146, 3)        7.79( 40, 1)         7.64(106,22)
    -1573.       210.    495.        7.92(104,23)        7.52(351, 5)        7.37(143, 4)        6.92(352, 1)         6.64(131, 3)
    -1573.       410.    482.       10.02( 93,20)        8.82(351, 5)        7.06(117, 7)        6.94(100, 5)         6.62(355, 4)
    -1573.      2410.    648.        4.19( 77, 6)        3.88(146,18)        3.88( 97, 6)        3.65( 79,20)         3.58( 95, 8)
    -1573.      4810.    609.        1.97(  3, 7)        1.89(114, 3)        1.88( 74, 1)        1.75( 96,22)         1.32(107,24)
    -1373.     -1190.    427.        3.34(363,21)        3.20(364, 1)        2.60(363,22)        2.18( 85,22)         2.09(135, 4)
    -1373.      2410.    609.        6.65(  3, 7)        4.87(114, 5)        4.52( 96, 6)        4.20( 77, 4)         3.70(122,19)
    -1373.      4810.    575.        1.58( 74, 1)        1.51(100,19)        1.47( 96,22)        1.43(107,21)         1.31(113,23)
    -1173.     -1190.    423.        3.60(364, 1)        3.20(363,21)        2.71( 96,23)        2.68( 85,22)         2.54( 94, 1)
    -1173.      -990.    423.        4.28(363,21)        3.84(364, 1)        2.76( 94, 1)        2.52( 73,24)         2.45( 96,24)
    -1173.      -790.    424.        5.00(363,21)        4.05(364, 1)        3.11( 96,23)        3.02( 94, 1)         2.88( 73,24)
    -1173.      -590.    425.        5.07(363,21)        4.32(364, 1)        3.34( 94, 1)        3.28( 73,24)         3.00(363,22)
    -1173.      -390.    425.        4.97(363,21)        4.75(364, 1)        4.53(363,22)        3.73( 94, 1)         3.73( 73,24)
    -1173.      2410.    610.        4.29(359, 1)        4.28( 10, 3)        4.11( 96, 6)        3.98(104, 4)         3.91(144,18)
    -1173.      4810.    555.        1.71(114, 4)        1.55(123,23)        1.50( 94, 6)        1.40(144,18)         1.31(100,19)
     -973.     -2390.    407.        3.58( 80,23)        3.02(352, 1)        2.67(152,19)        2.15(  1,23)         2.07( 68,21)
     -973.     -1390.    411.        2.64(114,20)        2.60( 94, 1)        2.43(120,19)        2.37( 85,22)         2.36( 73,24)
     -973.      -390.    421.        5.41(364, 1)        4.03(135, 4)        3.86( 94, 1)        3.84(149, 1)         3.75( 92, 6)
     -973.      -190.    423.        7.03(364, 1)        5.06(363,21)        4.59(135, 4)        4.31( 94, 1)         4.28( 92, 6)
     -973.       610.    387.       24.05(351, 5)       19.25(355, 4)       12.61(352, 2)       12.07(364, 1)        11.84(  3, 5)
     -973.      1610.    594.       14.79(  3, 7)       10.96( 94, 6)       10.89(359, 1)       10.57( 77, 6)        10.00( 96, 6)
     -973.      2410.    610.        4.26(114, 3)        4.25(120,22)        4.23(144,18)        4.21(103,19)         4.04(113,23)
     -973.      2610.    609.        3.73(120,22)        3.72(144,18)        3.64(114, 3)        3.40(113,23)         3.39( 92, 2)
     -973.      3610.    609.        2.19(144,18)        2.01(116,19)        1.97( 80,20)        1.94(104, 6)         1.91( 62,22)
     -973.      4610.    551.        1.92( 94, 6)        1.91( 97, 5)        1.45(366, 6)        1.41(100,19)         1.39(104, 6)
     -973.      4810.    549.        1.85(366, 6)        1.82( 94, 6)        1.79( 97, 5)        1.77(100,19)         1.41( 77, 6)
     -973.      5610.    549.        1.85( 94, 6)        1.50( 77, 6)        1.13(114, 4)        1.12(  5,21)         1.09(110, 4)
     -773.      -190.    420.        5.70( 73,24)        5.19(136, 6)        4.93( 77, 1)        4.66( 23, 4)         4.65( 94, 5)
     -773.      2010.    603.        8.84(  3, 7)        5.95(359, 1)        5.81(100,22)        5.74(366, 6)         5.71( 70, 6)
     -773.      2210.    610.        5.18(  3, 7)        4.92(366, 6)        4.78(120,22)        4.78( 97, 5)         4.77(114, 4)
     -773.      2410.    610.        4.31(366, 6)        4.18( 97, 5)        4.17(114, 4)        4.14(120,22)         4.13(114, 3)
     -773.      4810.    549.        1.87( 94, 6)        1.69( 77, 6)        1.56(100,19)        1.54(107,19)         1.42( 95, 8)
1                                                                                                          POSTZ - PAGE NO.   5


                                             HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)
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RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
      METERS                                              VALUE(DAY,ENDING HOUR)

     X           Y      ELEV.        HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-------------------------------------------------------------------------------------------------------------------------
     -573.      -190.    417.      4.62( 92, 6)      4.62(124, 2)      4.56(149,21)      4.55( 87,22)      4.55(132,24)
     -573.      2010.    593.      8.13(  3, 7)      6.01(114, 4)      5.75(366, 6)      5.68(359, 1)      5.56(114, 3)
     -573.      2210.    609.      7.12(  3, 7)      5.66(114, 3)      4.92(359, 1)      4.71(366, 6)      4.62(114, 4)
     -573.      2410.    610.      6.20(  3, 7)      4.90(114, 3)      4.67(120,22)      4.25(114, 2)      4.12(366, 6)
     -573.      4810.    572.      2.33( 94, 6)      1.85( 77, 6)      1.54(  5,21)      1.51(120,22)      1.39(100,22)
     -373.      -390.    410.      4.64(107, 3)      4.60( 98,21)      4.32(125, 1)      4.08( 92,24)      4.08(135, 6)
     -373.      -190.    418.      5.30( 92,24)      5.30(135, 6)      5.22(352, 3)      5.22(352, 4)      5.13(125, 1)
     -373.      2010.    564.      7.77(  3, 7)      5.48( 77, 4)      5.32( 97, 6)      5.32(146,18)      5.25(359, 1)
     -373.      2210.    594.      6.65(  3, 7)      4.89( 97, 5)      4.59(359, 1)      4.39(366, 6)      4.36( 97, 6)
     -373.      2410.    599.      5.93(  3, 7)      4.87(366, 6)      4.57( 97, 5)      4.47(114, 4)      4.08(359, 1)
     -373.      4810.    598.      1.65(120,22)      1.58(114, 3)      1.50(114, 2)      1.50(  5,21)      1.45( 77, 6)
     -173.      -390.    402.      5.57(107, 3)      4.32(124, 3)      4.20(128,21)      4.13( 87,22)      4.13(132,24)
     -173.      2410.    502.      5.77(  3, 7)      4.06( 77, 4)      4.06(115, 2)      4.06(115, 4)      3.86(359, 1)
     -173.      4810.    609.      2.08(  5,21)      1.82( 96, 6)      1.70( 77, 4)      1.62(114, 3)      1.55(114, 5)
       27.     -2390.    366.      2.96( 74, 5)      2.28( 12,21)      2.17(353,23)      1.89( 69, 3)      1.84( 78, 7)
       27.     -1390.    366.      2.85(  1,23)      2.62(125, 1)      2.54( 92,24)      2.54(135, 6)      2.50(153,21)
       27.      -590.    384.      4.02(102, 2)      3.68(153, 2)      3.57( 87,22)      3.57(132,24)      3.36(124, 3)
       27.      -390.    392.      4.52(117, 6)      4.48(153, 2)      4.21( 87,22)      4.21(132,24)      3.99(146,20)
       27.       610.    293.      8.34( 70, 5)      8.34( 73,23)      8.33( 70, 4)      8.33(133,19)      8.33(151, 7)
       27.      1610.    502.     11.74( 70, 2)     11.43(106, 3)     11.08(144,19)     10.31( 77,22)     10.31( 88, 6)
       27.      2410.    428.      4.74(  3, 7)      4.03(359, 1)      3.95( 70, 6)      3.83(115, 3)      3.83(115,20)
       27.      2610.    489.      5.63(  3, 7)      4.20( 96, 5)      3.84( 74, 1)      3.60( 96,22)      3.58(114,21)
       27.      3610.    555.      3.53( 94, 6)      2.70( 77, 6)      2.32( 97, 5)      2.32(366, 6)      2.16(104, 5)
       27.      4610.    605.      2.25( 96, 6)      1.85(  3, 7)      1.70(  5,21)      1.67(366, 6)      1.65( 70, 6)
       27.      4810.    609.      2.54(  3, 7)      2.23( 96, 6)      1.53( 37,22)      1.53(114, 4)      1.50(366, 6)
       27.      5610.    487.      2.60(150,22)      2.30( 86,21)      2.19( 96, 6)      1.56( 84,22)      1.42(285, 5)
      227.      -590.    373.      3.79(127, 3)      3.54( 93,20)      3.47(146,20)      3.44(140,24)      3.38(355, 3)
      227.      2410.    426.      4.22( 45,24)      3.88( 91,23)      3.74( 74, 1)      3.70( 96, 5)      3.61(115, 5)
      227.      4810.    608.      2.91( 96, 6)      1.76( 84,22)      1.74( 37,22)      1.63(366, 6)      1.62( 70, 6)
      427.      -790.    365.      3.37(127, 3)      3.21(  1,19)      2.95( 94, 4)      2.95( 95, 6)      2.95(147, 3)
      427.      -590.    366.      3.96( 80,23)      3.70( 45, 2)      3.59(352, 1)      3.40( 94, 4)      3.40( 95, 6)
      427.      2410.    424.      5.01(115, 5)      4.90( 98, 3)      4.90(134, 6)      4.38(134, 7)      3.86( 91,23)
      427.      4810.    575.      2.06(104, 4)      1.88( 78,23)      1.76(108, 4)      1.61( 75,20)      1.58(125,18)
      627.      -790.    360.      3.35( 30, 3)      3.19(  3, 2)      3.19( 19,18)      3.12( 74, 5)      3.03(  1,16)
      627.      2410.    408.      4.73(132,19)      4.64( 98, 3)      4.64(134, 6)      4.45(106, 1)      4.45( 92, 1)
      627.      4810.    548.      2.99(123,24)      2.62( 82, 5)      2.58(104, 4)      2.19(108, 4)      2.11(107,24)
      827.      -790.    355.      4.51(137, 5)      4.16( 25,20)      4.10(138, 1)      3.95( 12,21)      3.89( 24, 5)
      827.      2410.    372.      4.50(106, 1)      4.50( 92, 1)      4.50(122,20)      4.38(148,18)      4.35(132,19)
      827.      4810.    563.      2.92(123,24)      2.76(107,24)      2.72( 93, 6)      2.08(107, 1)      1.96(  3, 7)
     1027.     -2390.    339.      2.91(  3,20)      2.56(364, 1)      2.34(363,21)      2.15( 57,23)      2.14( 96,24)
     1027.     -1390.    346.      3.43(  4,23)      3.27( 40, 4)      3.05( 18, 3)      2.94( 18,22)      2.77( 67, 1)
     1027.      -790.    350.      4.58( 26,14)      4.43( 27,17)      3.92( 98, 4)      3.92( 97,24)      3.92(153,22)
     1027.      -390.    351.      4.71(127, 2)      4.68(114, 6)      4.49(298, 6)      4.44( 98, 5)      4.24( 97,24)
     1027.       610.    320.      6.55(149, 1)      5.42( 89,21)      5.20( 95, 1)      4.81(134, 1)      4.78( 91,21)
     1027.      1610.    398.     20.42( 74, 4)     18.07( 70, 7)     17.91(151, 8)     16.73(123,22)     16.03(122,18)
     1027.      2410.    363.      4.53( 96, 6)      4.28(148,18)      4.09( 87, 1)      3.91( 84,22)      3.88(134, 4)
     1027.      2610.    365.      4.31(150,22)      3.95(132,19)      3.90(106, 1)      3.90( 92, 1)      3.90(122,20)
     1027.      3610.    422.      3.86(123,24)      3.62( 88,23)      3.61(107,24)      3.52( 82, 5)      3.41( 86,24)
     1027.      4610.    541.      2.82(113,23)      2.59( 81,23)      2.59(107, 1)      2.38(  3, 7)      2.38(137,21)
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                                        HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
      METERS                                              VALUE(DAY,ENDING HOUR)

     X           Y      ELEV.        HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-------------------------------------------------------------------------------------------------------------------------
     1027.      4810.    548.      2.79(113,23)      2.30( 81,23)      2.29(107, 1)      2.25(  3, 7)      2.24(123,23)
     1027.      5610.    600.      2.40(113,23)      1.49(  2, 1)      1.42(135,18)      1.24(  4,20)      1.21( 92,19)
     1227.      -790.    344.      3.91( 67, 1)      3.87(  1,20)      3.40(114, 6)      3.39(127, 2)      3.34( 18, 3)
     1227.      2410.    355.      4.28( 88,23)      4.13( 93, 6)      4.08( 63, 1)      3.98( 86,24)      3.87(134, 4)
     1227.      4810.    585.      2.36(144,18)      2.13(  3, 7)      2.12(113,23)      2.07(  2, 1)      1.93( 32,21)
     1427.      -990.    337.      3.10(127, 2)      3.03(114, 6)      2.99( 97,24)      2.98(151,24)      2.98( 98, 6)
     1427.      -790.    338.      3.30( 98, 5)      3.26(114, 6)      3.23( 92, 4)      3.23(123, 2)      3.23(150, 7)
     1427.      2410.    346.      3.99(144,19)      3.90( 63, 1)      3.75( 70, 2)      3.35( 85, 5)      3.17(106, 3)
     1427.      4810.    588.      3.15(104, 6)      2.78(144,18)      2.61(113,22)      1.93(133,18)      1.88(  2, 1)
     1627.     -1190.    331.      2.83(127, 2)      2.78( 97,24)      2.77(151,24)      2.77( 98, 6)      2.66(114, 6)
     1627.      -990.    332.      2.96( 98, 5)      2.94(114, 6)      2.82(298, 6)      2.82(127, 2)      2.81( 92, 4)
     1627.      1610.    331.      4.52(126,19)      4.44( 39,19)      4.41( 70, 1)      4.25(115,19)      3.93( 36,22)
     1627.      1810.    331.      5.07(359, 3)      4.45( 93, 4)      4.04( 70, 1)      3.98(153, 3)      3.69(100,20)
     1627.      2010.    332.      6.64(150,19)      5.90( 97, 5)      5.89( 88, 3)      4.83( 94,21)      4.83( 84, 1)
     1627.      2210.    333.      4.13(114, 4)      4.11( 89,20)      4.05( 88, 6)      3.93( 77,22)      3.78( 95, 5)
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   1627.      2410.    337.       3.78( 70, 2)        3.67(106, 3)        3.49(144,19)        3.34( 88, 6)        3.27( 77,22)
   1627.      4810.    532.       1.86(133,18)        1.74(104, 6)        1.70( 41, 3)        1.67(234,20)        1.52( 83,19)
   1627.      5010.    533.       1.76(133,18)        1.66(104, 6)        1.61(234,20)        1.58( 41, 3)        1.41( 83,19)
   1827.     -1390.    325.       2.59( 97,24)        2.57(151,24)        2.57( 98, 6)        2.55(127, 2)        2.40( 98, 4)
   1827.     -1190.    326.       2.69(114, 6)        2.65( 98, 5)        2.59(127, 2)        2.57(298, 6)        2.40( 92, 4)
   1827.      1610.    321.       4.27( 29,15)        4.21( 51,14)        4.19( 29,17)        4.15( 45,20)        3.91(115,19)
   1827.      5010.    486.       2.94(100,22)        2.86(107,22)        2.51( 81,22)        2.34( 84,20)        1.45( 37,21)
   2027.     -2390.    309.       1.62( 94, 5)        1.53(124, 2)        1.50( 92, 6)        1.50(114,23)        1.50(113, 4)
   2027.     -1390.    320.       2.45(114, 6)        2.40(127, 2)        2.35( 98, 5)        2.34(298, 6)        2.20( 97,24)
   2027.      -390.    322.       4.73( 70, 4)        4.24( 70, 5)        4.14( 83,24)        3.96(127, 1)        3.69( 73,23)
   2027.       610.    317.       5.86(114,23)        5.28( 94, 4)        5.28( 95, 6)        5.28(147, 3)        4.59(125,22)
   2027.      1410.    313.       5.93(104, 5)        5.73(103,19)        4.45( 92, 2)        3.99(115, 3)        3.97(115,20)
   2037.      1231.    311.       8.93(114, 5)        8.45(115, 2)        8.45(115, 4)        8.43( 77, 4)        7.73(  3, 7)
   2027.      1610.    312.       4.57( 70, 6)        3.73(115, 3)        3.73(115,20)        3.61(115,19)        3.44( 59,14)
   2027.      2610.    327.       3.25( 70, 2)        3.11(106, 3)        2.93(144,19)        2.77(109,18)        2.74( 88, 6)
   2027.      3610.    342.       2.97( 87,20)        2.56( 81,20)        2.56(120,22)        2.45(114, 2)        2.41(134,18)
   2027.      4610.    440.       2.71(120,22)        2.68( 81,20)        2.53(114, 2)        2.38(114, 1)        2.24(100,22)
   2027.      5010.    469.       2.67(100,22)        2.33( 81,22)        2.24( 84,20)        1.90(120,22)        1.84( 81,20)
   2027.      5610.    515.       2.76(100,22)        2.48( 81,22)        2.30( 84,20)        1.63(107,22)        1.17(118,18)
   2227.     -1590.    313.       2.23(127, 2)        2.23(114, 6)        2.12(298, 6)        2.06( 97,24)        2.05(151,24)
   2227.       610.    311.       5.37( 98, 4)        5.37(153,22)        5.11( 97,24)        5.11( 98, 6)        5.11(151,24)
   2227.       810.    310.       6.40(136, 5)        6.40(124, 5)        6.40(153,23)        5.78(123, 4)        5.28( 73,22)
   2227.      1210.    305.       9.34( 87, 1)        9.09(148,18)        9.08(134, 4)        7.99(122,20)        7.99( 92, 1)
   2227.      1410.    305.       4.55(115, 5)        4.01( 91,23)        3.73(125,19)        3.67(134, 6)        3.66( 98, 3)
   2227.      5010.    438.       3.66(120,22)        3.45(114, 2)        3.27(114, 1)        2.89( 87,20)        2.56( 81,20)
   2427.     -1590.    309.       2.23( 98, 5)        2.12(114, 6)        2.09( 92, 4)        2.09(123, 2)        2.09(150, 7)
   2427.       410.    307.       3.95(125,20)        3.84(135,21)        3.83( 91,21)        3.43(151, 6)        3.31( 98, 4)
   2427.       610.    304.       4.79( 92, 5)        4.54( 77, 2)        4.54( 94, 3)        4.49( 93, 2)        4.07(151, 6)
   2427.       810.    305.       5.49(136, 5)        5.49(153,23)        5.49(124, 5)        4.81(123, 4)        4.30(359, 2)
   2427.      1210.    305.       8.04( 95, 5)        8.04( 89,20)        7.92(135,23)        6.91( 88, 6)        6.91( 77,22)
   2427.      5010.    426.       3.54(114, 3)        2.21(137,22)        1.75(120,22)        1.63(114, 2)        1.60(115, 6)
   2627.     -1590.    304.       2.15( 92, 4)        2.15(123, 2)        2.15(150, 7)        2.14( 94, 3)        2.14( 77, 2)
   2627.     -1390.    304.       2.35( 93, 2)        2.32( 92, 5)        2.06( 95, 4)        2.06( 73,22)        2.06( 85, 1)
   2627.      -390.    305.       3.30(151, 7)        3.30(133,19)        3.04( 70, 3)        3.04( 73,21)        2.24( 23, 3)
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                                               HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                    HIGHEST FIVE CONCENTRATIONS
       METERS                                                              VALUE(DAY,ENDING HOUR)

     X             Y       ELEV.        HIGHEST              2ND HIGH            3RD HIGH            4TH HIGH             5TH HIGH
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   2627.      -190.    304.       3.04(134,20)        2.81( 70, 3)        2.81( 73,21)        2.66(140,23)        2.63( 94, 4)
   2627.        10.    305.       3.41(140,23)        3.22(149,19)        3.02(134,20)        2.86(134, 1)        2.78( 77, 3)
   2627.       210.    305.       3.51(134, 1)        3.30(135,21)        3.29( 91,21)        3.21(149,19)        2.86(125,20)
   2627.       410.    305.       3.49(125,20)        3.47( 92, 4)        3.47(123, 2)        3.47(150, 7)        3.34( 77, 2)
   2627.       610.    305.       3.81(123, 4)        3.58(151, 6)        2.65(149,24)        2.62(125,20)        2.58(135,20)
   2627.       810.    305.       4.89(136, 5)        4.89(153,23)        4.89(124, 5)        4.00(123, 4)        3.72(359, 2)
   2627.      1010.    305.       4.15(123,21)        4.02( 89,21)        3.90( 95, 1)        3.87(359, 5)        3.59( 99,21)
   2627.      1210.    305.       5.38( 88, 3)        5.17(150,19)        3.73( 93, 4)        3.02(123,21)        2.89( 94,21)
   2262.       433.    311.       5.58( 77, 3)        5.07(145,19)        4.91(137, 5)        4.86(134,21)        4.86(146,23)
   2627.      5010.    380.       3.46(115, 6)        2.64( 92,20)        2.30(110, 4)        2.05(109,20)        1.69( 93,22)
   2827.     -1390.    301.       2.29( 95, 4)        2.29( 73,22)        2.29( 85, 1)        2.16(109, 4)        2.06( 93, 2)
   2827.     -1190.    302.       2.38(138, 5)        2.38(123, 1)        2.02(109, 4)        2.00(123, 3)        2.00(134,19)
   2827.      -990.    302.       2.59( 73,23)        2.47(123, 3)        2.47(134,19)        2.34( 70, 5)        2.17( 88, 5)
   2827.      -790.    302.       3.05( 70, 4)        2.78( 70, 5)        2.47( 83,24)        2.30( 73,23)        2.18( 92, 3)
   2827.      -590.    303.       2.61(151, 7)        2.61(133,19)        2.39(127, 1)        2.14(133, 6)        2.07( 83,24)
   2827.      -390.    303.       3.06( 70, 3)        3.06( 73,21)        2.95(151, 7)        2.95(133,19)        2.40(134,20)
   2827.      -190.    303.       2.77(134,20)        2.53(140,23)        2.34(149,19)        2.23( 70, 3)        2.23( 73,21)
   2827.        10.    303.       3.09(149,19)        3.06(140,23)        2.88(134, 1)        2.35( 10, 2)        2.31(134,20)
   2827.      5010.    358.       3.59( 93,22)        2.68( 92,20)        2.32(114, 4)        2.31( 80, 5)        2.30(110, 4)
   3027.     -2390.    297.       1.65( 97,24)        1.62(151,24)        1.61(127, 2)        1.61( 98, 6)        1.46( 98, 4)
   3027.     -1390.    298.       2.12(109, 4)        1.83(138, 5)        1.83(123, 1)        1.75( 95, 4)        1.75( 73,22)
   3027.      -390.    300.       2.69( 70, 3)        2.69( 73,21)        2.66(134,20)        2.37(151, 7)        2.37(133,19)
   3027.       610.    301.       3.20(123, 4)        2.76(151, 6)        2.38(149,24)        2.32(136, 5)        2.30(153,23)
   3027.      1610.    302.       3.07( 63, 1)        2.84(144,19)        2.38(134, 4)        2.21( 70, 2)        2.08(115,19)
   3027.      2610.    303.       2.67(149,18)        2.32( 84, 1)        1.87(135,23)        1.85(103,19)        1.82(150,19)
   3027.      3610.    305.       2.12(115, 4)        2.12(115, 2)        1.94( 62, 3)        1.88(116,19)        1.82( 77, 4)
   3027.      4610.    333.       2.34(108, 3)        2.34(351,23)        2.14( 80, 5)        2.13(115, 1)        2.10( 97, 5)
   3027.      5010.    348.       3.60(115, 1)        3.03( 92,21)        2.69(351,23)        2.62( 80, 5)        2.55(366, 6)
   3027.      5610.    372.       3.52( 93,22)        2.39( 92,20)        2.37(114, 4)        2.27( 80, 5)        2.10(115, 1)
   3227.      5010.    338.       2.11( 11,22)        2.08(108, 3)        1.79( 79,21)        1.78( 78, 3)        1.78( 80, 5)
   3227.      5210.    345.       2.52(351,23)        2.32(115, 1)        2.21( 97, 5)        2.16(108, 3)        2.12( 80, 5)
   3227.      5610.    362.       3.70(115, 1)        3.12( 92,21)        2.57(351,23)        2.55( 80, 5)        2.51(366, 6)
   3227.      6010.    373.       2.91(115, 1)        2.75( 93,22)        2.40( 92,21)        2.39(114, 4)        2.38( 80, 5)

 * - DENOTES PEAK VALUE
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                                      HIGH FIVE TABLE FOR     3 HOUR AVERAGES

  RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
        METERS                                             VALUE(DAY,ENDING HOUR)

      X          Y      ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------
    -5973.     -2390.    798.      0.45(  1,18)     0.30(151, 9)     0.30( 97,18)     0.30(120,21)     0.28(355, 9)
    -5973.     -1390.    793.      1.12( 51, 3)     0.76(106, 9)     0.75(108, 9)     0.69( 29,24)     0.61(103,18)
    -5973.      -390.    781.      2.47(  7,24)     1.44( 77, 9)     1.28( 68, 6)     0.89(124, 9)     0.85( 75, 9)
    -5973.       610.    852.      1.11( 96,18)     1.08( 92, 9)     0.95( 82, 9)     0.95( 77,12)     0.90( 93,18)
    -5973.      1610.    731.      2.06( 70, 9)     1.27( 74, 6)     1.18(134, 9)     1.12(122,18)     0.90( 89,18)
    -5973.      2610.    730.      1.28( 74, 3)     1.06(136,18)     0.92(132,18)     0.80( 45,24)     0.78( 94, 9)
    -5973.      3610.    728.      0.56( 74, 3)     0.51( 77, 6)     0.51( 98,21)     0.50( 95, 9)     0.47( 92, 9)
    -5973.      4610.    747.      0.55( 96, 9)     0.51( 70, 9)     0.48(  5,21)     0.40( 74, 6)     0.38(132,18)
    -5973.      5610.    625.      0.51( 70, 9)     0.48( 96,21)     0.45(147, 9)     0.42(140, 9)     0.41( 74, 3)
    -4973.     -2390.    797.      0.59(115, 9)     0.58(114, 9)     0.55(117, 9)     0.36( 79, 9)     0.32(108, 9)
    -4973.     -1390.    731.      1.75( 74, 6)     1.10(120,21)     0.98( 55, 6)     0.96( 61,24)     0.92( 52, 6)
    -4973.      -390.    652.      2.75(106, 9)     2.61(120,21)     2.23(151, 9)     2.22(117, 9)     2.14( 61,24)
    -4973.      1610.    771.      2.38(100,21)     2.13(107,21)     1.74(123,18)     1.69( 95, 9)     1.58(111,18)
    -4973.      2610.    792.      1.09( 37,24)     1.06( 74, 3)     0.90(152, 9)     0.80(120,18)     0.78(129,18)
    -4973.      3610.    904.      0.76(136,18)     0.63( 75,21)     0.62(132,18)     0.55(139,18)     0.48(125,18)
    -4973.      4610.    858.      0.54( 96, 9)     0.52(100,21)     0.39(107,21)     0.35(129,18)     0.32( 89,18)
    -4973.      5610.    570.      0.50( 96,21)     0.43(147, 9)     0.38( 70, 9)     0.35(218, 9)     0.34(134, 9)
    -4773.       410.    646.      9.68( 77,18)     7.74( 95,21)     7.56( 74, 9)     7.18( 96,18)     6.69(148,15)
    -4773.       610.    669.     11.40( 96, 9)    10.89( 70, 9)     9.86(100,18)     8.99(105,18)     8.34( 89,18)
    -4773.       810.    666.      6.12(132,18)     5.59(120,18)     5.45(112,18)     5.30( 44,24)     3.93(140,15)
    -4773.      1010.    695.      5.29(136,18)     5.19(132,18)     4.88( 74, 3)     3.96( 98,18)     3.88(133,18)
    -4773.      1210.    730.      3.71(100,21)     3.06(107,21)     3.05( 82, 9)     2.69(123,18)     2.64(111,18)
    -4773.      1210.    730.      3.71(100,21)     3.06(107,21)     3.05( 82, 9)     2.69(123,18)     2.64(111,18)
    -4573.       410.    633.     16.05( 98,21)    14.76( 88,18)    14.69(123,15)    14.11( 94, 9)    11.55( 72,24)
    -4573.      1210.    722.      3.11(  5,21)     3.07( 37,24)     2.45(153, 9)     2.36(148,18)     2.26( 39, 9)
    -4573.      4810.    853.      0.38(134, 9)     0.37( 96, 9)     0.37(135,18)     0.36(148,18)     0.35(120,18)
    -4373.        10.    609.     22.65(  1,18)    13.36( 50, 6)    11.89(107, 6)    11.37( 61,24)     8.22( 43, 6)
    -4373.       210.    554.      3.98( 72,21)     3.63(354, 6)     3.07(107, 3)     3.07( 77, 6)     2.90( 43, 9)
    -4373.       410.    583.      9.85( 74,18)     9.08( 75,12)     8.78( 69,18)     7.30( 75,15)     7.10( 39,15)
    -4373.      1410.    694.      2.61(107,18)     2.24(135,18)     2.06(104, 6)     1.87( 57,18)     1.85( 10, 9)
    -4373.      1610.    756.      2.24(107,18)     2.17( 70, 9)     2.04(135,18)     1.88( 96, 9)     1.50( 57,18)
    -4373.      1610.    756.      2.24(107,18)     2.17( 70, 9)     2.04(135,18)     1.88( 96, 9)     1.50( 57,18)
    -4373.      4810.    856.      0.41(144,18)     0.41(148,18)     0.38(149,18)     0.36(132,18)     0.35(120,18)
    -4173.        10.    553.      5.28(  1,12)     3.48( 27,18)     2.65( 19,12)     2.44(107, 6)     2.37( 77, 9)
    -4173.      1610.    787.      2.96( 70, 9)     2.23(144,18)     2.01( 74, 6)     1.91(104, 6)     1.88(152,18)
    -4173.      4810.    828.      0.46(132,18)     0.44(104, 6)     0.41(133,18)     0.39(134, 9)     0.34(120,18)
    -3973.     -2390.    767.      1.14( 74, 6)     0.97( 73,24)     0.92( 23, 6)     0.76(107, 9)     0.71( 23, 3)
    -3973.     -1390.    732.      1.85( 92, 6)     1.80( 60, 3)     1.76(  1,21)     1.57( 22,24)     1.55( 23, 3)
    -3973.      -390.    548.      3.07( 96,24)     2.33( 26,12)     1.97( 46, 3)     1.86( 27,21)     1.66( 19, 9)
    -3973.        10.    549.      9.30( 12, 6)     7.85( 16, 3)     6.37( 20, 3)     6.04(  2, 6)     5.64( 35, 6)
    -3973.       610.    722.     11.19(  3, 9)    10.84( 28,21)    10.49(108,18)     9.17( 41, 6)     8.87( 37,24)
    -3973.      1610.    773.      2.84( 84,21)     2.78(134,18)     2.46(121,18)     2.19(120,24)     2.07(128,18)
    -3973.      2610.    875.      1.00(133,18)     0.89(139,18)     0.84(128,18)     0.79(121,18)     0.68(136,18)
    -3973.      3610.    914.      0.66(148,18)     0.58(149,18)     0.55(139,18)     0.55(129,18)     0.45( 89,18)
    -3973.      4610.    954.      0.51(132,18)     0.37(120,18)     0.34(145,18)     0.31( 89,18)     0.31(133,18)
    -3973.      4810.    838.      0.51(132,18)     0.39(134, 9)     0.38(152, 9)     0.34(133,18)     0.34(120,18)
    -3973.      5610.    686.      0.63( 74, 3)     0.51( 84,24)     0.39(120,18)     0.35(133,18)     0.32(167, 9)
    -3773.        10.    549.      5.72( 34,21)     4.17( 18, 6)     3.50( 23,24)     2.93(  4, 3)     2.85( 56,21)
    -3773.      1610.    755.      2.38(366, 6)     1.89(120,18)     1.81( 44,24)     1.74( 74, 3)     1.67(109,18)
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                                      HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
        METERS                                             VALUE(DAY,ENDING HOUR)

      X          Y      ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
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    -3773.      1810.    792.      2.13(132,18)     1.48(109,18)     1.34(134,18)     1.33(145,18)     1.21(109, 9)
    -3773.      2010.    824.      1.93(132,18)     1.70(136,18)     1.22( 98,18)     1.16(109,18)     1.11(134,18)
    -3773.      4810.    839.      0.50(132,18)     0.37(134, 9)     0.36(129,18)     0.36(136,18)     0.36(152, 9)
    -3573.        10.    549.      5.80(  7,24)     5.35(107, 3)     3.29( 68, 6)     2.86( 35,21)     2.71( 34,18)
    -3573.      2010.    848.      1.72(366, 6)     1.35(100,21)     1.31(133,18)     1.27(  3, 9)     1.11(108,18)
    -3573.      4810.    852.      0.48(134,18)     0.43(132,18)     0.39(129,18)     0.38( 75,21)     0.35(120,18)
    -3373.        10.    549.      2.65( 32,18)     2.58(  7,24)     2.07(103,18)     2.06(107, 3)     2.06( 50, 6)
    -3373.      2010.    799.      1.77(123,18)     1.69(146,18)     1.57( 82, 9)     1.48( 77, 6)     1.38( 95, 9)
    -3373.      4810.    831.      0.58(134,18)     0.39(129,18)     0.38(120,18)     0.36(100,21)     0.34(132,18)
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   -3273.      2010.    787.        1.75( 29, 3)        1.51(123,18)        1.47( 77, 6)        1.45(  5,21)        1.44(146,18)
   -3273.      2210.    841.        1.99(146,18)        1.30(139,18)        1.22( 98,21)        1.12(148,18)        0.96(149,18)
   -3273.      2410.    862.        1.91(146,18)        1.30(139,18)        0.94(  3,21)        0.82( 73,21)        0.80( 88,18)
   -3173.        10.    567.        8.71( 96,24)        6.95( 46, 3)        6.79(102, 3)        4.31(103,18)        3.70( 93,18)
   -3173.      2410.    841.        2.19(146,18)        1.78( 96, 9)        1.33(139,18)        0.98(152, 9)        0.90(122,18)
   -3173.      4810.    806.        0.42(120,18)        0.41(100,21)        0.38(134,18)        0.38(129,18)        0.34(107,18)
   -2973.     -2390.    661.        1.66(106, 6)        1.18( 84,24)        0.96( 99,21)        0.92( 23, 6)        0.83( 79, 9)
   -2973.     -1390.    613.        2.07( 52, 3)        1.75(146,21)        1.67( 68, 3)        1.66(108, 6)        1.63( 85,21)
   -2973.      -390.    609.        4.25( 70, 6)        4.19(  3, 3)        4.18( 74, 6)        3.99(355, 9)        3.97(  1,18)
   -2973.        10.    601.        7.77(106, 9)        6.64(107, 6)        6.45(120,21)        6.07( 61,24)        5.66(117, 9)
   -2973.       610.    579.       12.58( 96, 9)       10.41(100,18)        9.91( 88,18)        9.77( 71,21)        9.21(105,18)
   -2973.      1610.    823.        1.61( 39, 9)        1.58(148,18)        1.56(  2,21)        1.48( 82, 9)        1.39(152, 9)
   -2973.      2410.    784.        2.13( 70, 9)        1.95( 96, 9)        1.43(146,18)        1.37(139,18)        1.36( 74, 6)
   -2973.      2610.    786.        2.03( 70, 9)        1.45( 74, 6)        1.41(146,18)        1.34( 96, 9)        1.12(140, 9)
   -2973.      3610.    865.        0.89(132,18)        0.73(366, 6)        0.66(136,18)        0.59(107,18)        0.54(135,18)
   -2973.      4610.    770.        0.55( 74, 3)        0.45(120,18)        0.43(100,21)        0.41( 44,24)        0.40(129,18)
   -2973.      4810.    747.        0.55( 74, 3)        0.46(120,18)        0.40( 77, 6)        0.37( 44,24)        0.35(194,18)
   -2973.      5610.    642.        0.51(132,18)        0.44(113,24)        0.40(114, 3)        0.35(194,18)        0.32(145,18)
   -2773.        10.    609.       13.69(  1,18)       12.11(108, 9)        9.47(355, 9)        9.41(  3, 3)        8.53( 74, 3)
   -2773.      2410.    731.        2.54( 70, 9)        1.75( 96, 9)        1.68( 74, 6)        1.54(135,18)        1.37(122,18)
   -2773.      4810.    724.        0.48(120,18)        0.48(144,18)        0.43( 74, 3)        0.42( 77, 6)        0.41(366, 6)
   -2573.        10.    587.       26.69(  2,24)*      22.38( 18, 3)*      22.12( 69, 6)       15.31( 51, 6)       13.64( 27,18)
   -2573.      2410.    732.        2.12( 70, 9)        2.00(104, 6)        1.72( 74, 3)        1.50(129,18)        1.50( 74, 6)
   -2573.      4810.    713.        0.54(104, 6)        0.52(144,18)        0.50(132,18)        0.49(366, 6)        0.48(120,18)
   -2373.        10.    574.       21.03(  3, 3)       17.28(153, 3)       16.46( 22,24)       16.03(152,24)       15.06(152,21)
   -2373.      2410.    726.        2.57( 74, 3)        1.67(120,18)        1.51(129,18)        1.44(104, 6)        1.41(132,18)
   -2373.      4810.    700.        0.64(132,18)        0.47(  3,21)        0.44( 45,24)        0.43(120,18)        0.41(133,18)
   -2173.        10.    564.       20.79(146,21)       15.48( 52, 3)       15.20( 68, 3)       12.42(153, 6)       11.49( 12,24)
   -2173.      2410.    675.        4.28(114, 3)        2.18( 74, 3)        1.91(134,18)        1.81(132,18)        1.67(120,24)
   -2173.      4810.    675.        0.71(132,18)        0.58( 45,24)        0.57( 74, 3)        0.55( 84,21)        0.47(100,24)
   -1973.     -2390.    487.        1.17(362, 3)        1.01(152,21)        0.97(117, 9)        0.87(114,21)        0.82(355, 6)
   -1973.     -1390.    522.        1.80( 97, 3)        1.61( 67, 6)        1.39(351, 6)        1.36( 22, 3)        1.33( 66, 6)
   -1973.      -390.    487.        2.82(130,21)        2.57( 12,24)        2.47( 12, 6)        2.35( 31, 9)        2.16( 25,24)
   -1973.      -190.    526.        7.18( 68, 3)        5.81(128,24)        5.21( 24,21)        4.90( 30,24)        4.82(148,24)
   -1973.        10.    549.       19.44(119,21)       13.03(132,24)       12.69(123, 3)        8.76( 92, 6)        8.74(119,24)
   -1973.       210.    549.       15.43(108,21)       14.41(133, 6)       13.58(142,21)       13.54(102,24)       13.10(106,24)
   -1973.       410.    547.       23.51(100, 6)       21.77(145, 6)       21.27( 89,24)       21.20(144, 6)       20.75(119, 6)
   -1973.       610.    479.        7.84( 42,18)        5.97( 60,18)        4.95( 30,18)        4.11( 17,18)        4.07( 13,18)
   -1973.      1610.    768.        5.33(146,18)        5.01( 70, 9)        4.82( 96, 9)        4.69(139,18)        3.73(122,18)
   -1973.      2410.    675.        1.99(132,18)        1.56( 74, 3)        1.46(136,18)        1.38( 98,18)        1.31(114, 3)
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                                           HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
      METERS                                                     VALUE(DAY,ENDING HOUR)

     X           Y       ELEV.         HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
----------------------------------------------------------------------------------------------------------------------------------
   -1973.      2610.    799.        1.48(132,18)        1.33(136,18)        1.24( 98,18)        1.02( 95, 9)        0.98( 77, 6)
   -1973.      3610.    696.        1.07(134,18)        1.00(120,24)        0.73( 84,24)        0.71(120,18)        0.66(148,18)
   -1973.      4610.    628.        0.75(132,18)        0.65( 74, 3)        0.61( 45,24)        0.57(114, 3)        0.52( 77, 6)
   -1973.      4810.    646.        0.69(132,18)        0.55( 74, 3)        0.49(136,18)        0.49( 45,24)        0.47( 96,24)
   -1973.      5610.    597.        0.55(107,24)        0.53(107,21)        0.44( 84,21)        0.44( 74, 3)        0.44(100,24)
   -1773.      -790.    529.        3.47(153, 3)        2.95(143,18)        2.95(146,21)        2.77( 12,24)        2.51(  4,24)
   -1773.      -590.    497.        2.27( 52, 3)        2.17( 12,24)        2.13( 11,24)        2.07( 68, 3)        1.97( 12, 6)
   -1773.       210.    539.       11.60( 99,24)       11.46( 82,24)        9.51(104,24)        9.48(142,21)        9.24(103,24)
   -1773.       410.    491.        8.97(100, 6)        7.38(144, 6)        6.46(118, 3)        6.01(104, 3)        6.00( 21,21)
   -1773.      2410.    668.        1.68(366, 6)        1.65(132,18)        1.48(136,18)        1.47(147,18)        1.45( 98,18)
   -1773.      4810.    609.        1.50(114, 3)        0.65(120,24)        0.64(132,18)        0.53( 45,24)        0.52(151,18)
   -1573.     -1190.    433.        1.40( 96,24)        1.18(363,21)        1.13(106, 6)        1.03(351, 6)        0.97(  4,24)
   -1573.      -990.    459.        1.68( 96,24)        1.56(351, 6)        1.25(363,21)        1.20( 12,24)        1.18(106, 6)
   -1573.      -790.    482.        1.67(351, 6)        1.55( 68, 3)        1.55(  7,24)        1.53( 52, 3)        1.49( 12, 6)
   -1573.      -590.    487.        1.95(149, 3)        1.85( 34,24)        1.81( 69,24)        1.72( 17, 6)        1.70(351, 6)
   -1573.      -390.    465.        1.92(119,24)        1.90(351, 6)        1.79(120, 6)        1.60(120, 3)        1.54(  7,24)
   -1573.      -190.    475.        2.31( 34,21)        2.15(351, 6)        1.99(  4, 3)        1.85(  3, 3)        1.79(  3, 6)
   -1573.        10.    505.        5.58(133, 6)        4.77(141,24)        3.68(141,21)        3.24( 60, 3)        3.13(143, 3)
   -1573.       210.    495.        4.17(131, 3)        3.89( 52,24)        3.75(101,24)        3.73(352, 3)        3.00(104,24)
   -1573.       410.    482.        5.72(100, 6)        4.73(144, 6)        4.66(118, 3)        3.81( 93,21)        3.72(104, 3)
   -1573.      2410.    648.        2.16( 77, 6)        1.93(146,18)        1.75( 62,24)        1.48(123,18)        1.44( 97, 6)
   -1573.      4810.    609.        1.05(114, 3)        0.73(  3, 9)        0.65(151,18)        0.63( 74, 3)        0.58( 96,24)
   -1373.     -1190.    427.        1.42(364, 3)        1.35( 96,24)        1.31( 69, 6)        1.21(106, 6)        1.16(363,21)
   -1373.      2410.    609.        2.43( 77, 6)        2.40(  3, 9)        1.67( 90,21)        1.66(104, 6)        1.62(114, 6)
   -1373.      4810.    575.        0.81(107,21)        0.63(113,24)        0.59(133,18)        0.56(144,18)        0.53( 74, 3)
   -1173.     -1190.    423.        1.87(364, 3)        1.59( 96,24)        1.44( 69, 6)        1.42( 23, 6)        1.38(106, 6)
   -1173.      -990.    423.        2.02(364, 3)        1.76(363,21)        1.56( 96,24)        1.55( 69, 6)        1.51(106, 6)
   -1173.      -790.    424.        2.16(364, 3)        2.08(363,21)        1.94( 96,24)        1.68( 69, 6)        1.65( 23, 6)
   -1173.      -590.    425.        2.34(364, 3)        2.21(363,21)        1.83( 69, 6)        1.80( 23, 6)        1.74( 85,21)
   -1173.       -390.     425.        2.60(364, 3)        2.31(363,21)        2.09( 85,21)        2.04( 69, 6)        1.99( 23, 6)
   -1173.       2410.     610.        2.44(104, 6)        1.94(107,24)        1.90(113,24)        1.54( 84,24)        1.46(135,18)
   -1173.       4810.     555.        0.79(107,21)        0.75(144,18)        0.68(113,24)        0.67(133,18)        0.58(123,24)
    -973.      -2390.     407.        1.19( 80,24)        1.10(352, 3)        0.91(  1,24)        0.91(152,21)        0.83(114, 9)
    -973.      -1390.     411.        1.45( 94, 3)        1.01(362, 3)        1.01(364, 3)        1.00( 47, 3)        0.92( 69, 6)
    -973.       -390.     421.        2.84(364, 3)        2.50(124, 3)        2.35( 69, 6)        2.33( 94, 3)        1.96( 23, 6)
    -973.       -190.     423.        3.52(364, 3)        2.85(124, 3)        2.80( 69, 6)        2.62( 94, 3)        2.57(363,21)
    -973.        610.     387.        9.48(351, 6)        9.32(124, 3)        8.82(355, 6)        8.56(146,24)        8.26(135, 6)
    -973.       1610.     594.        8.73(  3, 9)        8.69(104, 6)        8.28(114, 3)        6.85( 77, 6)        6.56(113,24)
    -973.       2410.     610.        3.89(114, 3)        2.53(104, 6)        2.17(113,24)        1.97( 92, 3)        1.85(120,24)
    -973.       2610.     609.        3.38(114, 3)        1.87(113,24)        1.62(134,18)        1.42( 84,21)        1.42( 92, 3)
    -973.       3610.     609.        1.10(113,24)        1.01(132,18)        1.00(133,18)        0.85(144,18)        0.73( 74, 3)
    -973.       4610.     551.        0.78(144,18)        0.74(133,18)        0.70( 97, 6)        0.68(107,21)        0.64( 94, 6)
    -973.       4810.     549.        0.74(144,18)        0.62( 97, 6)        0.62(366, 6)        0.61(133,18)        0.61( 94, 6)
    -973.       5610.     549.        0.62( 94, 6)        0.52( 77, 6)        0.49(  3, 9)        0.47(144,18)        0.47(114, 6)
    -773.       -190.     420.        3.51(124, 3)        3.41( 97, 3)        2.65(113,21)        2.57( 94, 3)        2.17(138, 3)
    -773.       2010.     603.        5.14(114, 3)        4.97(  3, 9)        3.75(114, 6)        3.62( 97, 6)        2.87(113,24)
    -773.       2210.     610.        4.37(114, 3)        3.34(  3, 9)        3.07( 97, 6)        2.94(114, 6)        2.41(140, 9)
    -773.       2410.     610.        3.78(114, 3)        2.28( 97, 6)        2.04(104, 6)        1.95(140, 9)        1.90(113,24)
    -773.       4810.     549.        0.64(113,24)        0.62( 94, 6)        0.58(107,21)        0.56( 77, 6)        0.54(123,18)
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                                                  HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                      HIGHEST FIVE CONCENTRATIONS
       METERS                                                                VALUE(DAY,ENDING HOUR)

     X           Y        ELEV.       HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
     -573.       -190.     417.        4.28(124, 3)        2.85(136,24)        2.79(113,21)        2.76(135,24)        2.56(117, 6)
     -573.       2010.     593.        4.82(  3, 9)        4.08(114, 3)        3.75(114, 6)        3.44( 97, 6)        2.87(140, 9)
     -573.       2210.     609.        4.56(114, 3)        4.06(  3, 9)        3.06(114, 6)        2.93( 97, 6)        2.65(140, 9)
     -573.       2410.     610.        4.35(114, 3)        3.45(  3, 9)        2.67(114, 6)        2.56( 97, 6)        1.98(134,18)
     -573.       4810.     572.        1.24(114, 3)        0.78( 94, 6)        0.65( 77, 6)        0.60( 79,21)        0.54( 84,21)
     -373.       -390.     410.        2.65(136,24)        2.53(117, 6)        2.34(135, 6)        2.33( 97, 3)        2.33(135,24)
     -373.       -190.     418.        2.88(135, 6)        2.83(135,24)        2.79(136,24)        2.74(138, 3)        2.60(117, 6)
     -373.       2010.     564.        3.65(  3, 9)        2.94(140, 9)        2.81( 62,24)        2.64( 97, 6)        2.58(146,18)
     -373.       2210.     594.        3.55(  3, 9)        3.08( 97, 6)        2.54(114, 6)        2.17(134, 9)        1.99(140, 9)
     -373.       2410.     599.        3.30(  3, 9)        2.76(114, 6)        2.71( 97, 6)        2.48( 74, 3)        1.89(133, 9)
     -373.       4810.     598.        1.48(114, 3)        0.80( 77, 6)        0.55(120,24)        0.50(  5,21)        0.46(148,18)
     -173.       -390.     402.        2.68(117, 6)        2.47(135,24)        2.38(128,24)        2.36(135, 6)        2.08(352, 3)
     -173.       2410.     502.        2.68(115, 3)        2.45(  3, 9)        1.99(140, 9)        1.90( 74, 3)        1.85(133, 9)
     -173.       4810.     609.        1.30(114, 3)        0.86(114, 6)        0.78( 77, 6)        0.76(  3, 9)        0.69(  5,21)
       27.      -2390.     366.        0.99( 74, 6)        0.93( 69, 3)        0.87( 97, 3)        0.77(353,24)        0.76( 12,21)
       27.      -1390.     366.        1.42(117, 6)        1.41(365, 3)        1.36(135,24)        1.36(138, 3)        1.36(113,21)
       27.       -590.     384.        2.25(128,24)        2.07(355, 3)        2.02(117, 6)        1.94(153, 3)        1.87(136,24)
       27.       -390.     392.        2.87(146,24)        2.78(128,24)        2.71(136,24)        2.48(153, 3)        2.48(117, 6)
       27.        610.     293.        5.89( 70, 6)        5.70(123, 3)        5.38(134,21)        5.09(133, 6)        4.83( 73,24)
       27.       1610.     502.        5.31(106, 3)        4.61(104, 9)        4.39( 84, 3)        4.27(134, 6)        4.22( 63, 3)
       27.       2410.     428.        2.28(115,21)        1.86(123,21)        1.86(115, 3)        1.84(  3, 9)        1.70(132,18)
       27.       2610.     489.        2.24(115, 3)        2.16(  3, 9)        1.88( 74, 3)        1.86( 77, 6)        1.78(132,18)
       27.       3610.     555.        1.56( 77, 6)        1.42( 97, 6)        1.28(  3, 9)        1.20(114, 6)        1.18( 94, 6)
       27.       4610.     605.        1.04(  3, 9)        0.75( 96, 6)        0.74(114, 6)        0.62( 97, 6)        0.57(  5,21)
       27.       4810.     609.        1.22(  3, 9)        0.92(114, 6)        0.74( 96, 6)        0.56( 37,24)        0.55(114, 3)
       27.       5610.     487.        0.88(114, 3)        0.87(150,24)        0.80( 86,21)        0.73( 96, 6)        0.71(285, 6)
      227.       -590.     373.        2.56(146,24)        2.36(128,24)        2.21(146,21)        2.19(150, 6)        2.19(355, 3)
      227.       2410.     426.        2.04( 74, 3)        1.80(147,18)        1.71(132,18)        1.65( 45,24)        1.54( 98,18)
      227.       4810.     608.        0.97( 96, 6)        0.73(  3, 9)        0.70( 97, 6)        0.62( 37,24)        0.60(114, 6)
      427.       -790.     365.        2.22(146,24)        2.08(150, 6)        1.98(128,24)        1.83(146,21)        1.81(150, 3)
      427.       -590.     366.        2.67(137, 6)        2.63(150, 6)        2.46(146,24)        2.45(150, 3)        2.32(147,24)
      427.       2410.     424.        1.98(147,18)        1.95(134, 6)        1.92(115, 6)        1.75( 62,24)        1.67(134, 9)
      427.       4810.     575.        0.84( 97, 6)        0.73(104, 6)        0.65( 78,24)        0.59(108, 6)        0.55( 75,21)
      627.       -790.     360.        2.76(  1,18)        2.36(365, 3)        2.27(150, 6)        2.18(137, 6)        2.10(150, 3)
      627.       2410.     408.        2.80(134, 6)        2.02(120,21)        2.01( 62,24)        1.99(115, 6)        1.74(122,21)
      627.       4810.     548.        1.05(123,24)        0.94(104, 6)        0.87( 82, 6)        0.84(107,24)        0.73(108, 6)
      827.       -790.     355.        2.81(152, 6)        2.67(126, 3)        2.63(125,24)        2.46(  1,18)        2.40(137, 6)
      827.       2410.     372.        3.02(134, 6)        2.30(120,21)        2.20(148,18)        1.81(122,21)        1.76( 92, 3)
      827.       4810.     563.        1.17(123,24)        1.00(107,24)        0.91( 93, 6)        0.82(  3, 9)        0.78(113,24)
     1027.      -2390.     339.        1.24(106, 6)        1.10(  3,21)        0.93( 69, 6)        0.92(364, 3)        0.89(153, 3)
     1027.      -1390.     346.        1.65(150, 6)        1.39(150, 3)        1.35(146,24)        1.34(128,24)        1.32(147,24)
     1027.       -790.     350.        3.40( 98, 6)        2.59(137, 3)        2.47(152, 6)        2.35(126, 3)        2.31(151, 3)
     1027.       -390.     351.        3.96( 98, 6)        3.11( 85, 3)        2.91( 92, 6)        2.83(  1,18)        2.69(119,21)
     1027.        610.     320.        3.20( 95, 3)        2.27(149, 3)        2.24(123,21)        2.23( 82,24)        2.21(135,21)
     1027.       1610.     398.       11.45( 70, 9)        7.01( 74, 6)        6.68(218,18)        6.30(123,24)        6.15(151, 9)
     1027.       2410.     363.        2.62(134, 6)        1.92(120,21)        1.92(122,21)        1.84(150,18)        1.79(150,24)
     1027.       2610.     365.        2.34(134, 6)        2.25(150,24)        2.02( 86,21)        1.86(120,21)        1.58(122,21)
     1027.       3610.     422.        1.78(123,24)        1.49(137,21)        1.40(107,24)        1.26( 88,24)        1.21( 93, 6)
     1027.       4610.     541.        1.23( 81,24)        1.06(113,24)        1.04(123,24)        0.91(  3, 9)        0.86(107, 3)
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                                HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
       METERS                                             VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.         HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
------------------------------------------------------------------------------------------------------------------------------------
      1027.       4810.     548.        1.08(113,24)        1.06( 81,24)        0.96(123,24)        0.87(  3, 9)        0.77( 86,21)
      1027.       5610.     600.        1.17(113,24)        0.50(  2, 3)        0.48(  4,21)        0.47(135,18)        0.44( 97, 6)
      1227.       -790.     344.        3.10( 98, 6)        2.66(137, 3)        2.51(152, 3)        2.22(127, 6)        2.19(151, 3)
      1227.       2410.     355.        2.02(134, 6)        1.85(150,18)        1.73(107,18)        1.70(123,24)        1.63( 86,24)
      1227.       4810.     585.        1.19(113,24)        0.90(104, 6)        0.81(  3, 9)        0.79(144,18)        0.74(152,18)
      1427.       -990.     337.        2.81( 98, 6)        2.34(137, 3)        2.14(152, 3)        1.92(151, 3)        1.92(127, 6)
      1427.       -790.     338.        2.89( 98, 6)        2.31( 26,18)        2.27( 92, 6)        2.14( 94, 3)        2.08(119,21)
      1427.       2410.     346.        1.73(152,18)        1.64( 82,18)        1.61( 81,18)        1.49( 79,18)        1.47(134, 6)
      1427.       4810.     588.        1.28(104, 6)        1.01(113,24)        0.93(144,18)        0.78(  2,21)        0.67(152,18)
      1627.      -1190.     331.        2.53( 98, 6)        2.05(137, 3)        1.81(152, 3)        1.70(151, 3)        1.69(127, 6)
      1627.       -990.     332.        2.58( 98, 6)        1.99( 92, 6)        1.81(119,21)        1.79(137, 3)        1.79( 94, 3)
      1627.       1610.     331.        2.74(128,18)        2.70( 64,18)        2.63( 79,15)        2.62( 36,24)        2.46( 41,12)
      1627.       1810.     331.        2.56( 64,18)        2.44(128,18)        2.43( 36,24)        2.35(122, 6)        2.32( 93, 6)
      1627.       2010.     332.        2.71( 97, 6)        2.33(150,21)        2.32( 64,18)        2.24( 36,24)        2.12(128,18)
      1627.       2210.     333.        2.05( 64,18)        2.03( 36,24)        1.87(366, 6)        1.83(128,18)        1.74( 41, 3)
      1627.       2410.     337.        1.89( 36,24)        1.84( 64,18)        1.83(114, 3)        1.74( 84,21)        1.63(121,18)
      1627.       4810.     532.        0.90(104, 6)        0.65( 83,21)        0.65( 36,24)        0.64( 84,21)        0.62(133,18)
      1627.       5010.     533.        0.78(104, 6)        0.60( 90, 6)        0.60( 36,24)        0.59(133,18)        0.58( 83,21)
      1827.      -1390.     325.        2.27( 98, 6)        1.79(137, 3)        1.52(152, 3)        1.51(127, 6)        1.50(151, 3)
      1827.      -1190.     326.        2.33( 98, 6)        1.98( 92, 6)        1.63(137, 3)        1.57(152, 3)        1.55(119,21)
      1827.       1610.     321.        2.50( 29,15)        2.37( 29,18)        2.08( 29,12)        1.97(150,24)        1.92( 21,15)
      1827.       5010.     486.        1.21( 84,21)        1.02( 81,24)        1.01(107,24)        0.98(100,24)        0.55(128,18)
      2027.      -2390.     309.        1.07(150, 6)        1.02( 94, 6)        0.95(124, 3)        0.93(113, 6)        0.90(147,24)
      2027.      -1390.     320.        2.13( 98, 6)        1.48(137, 3)        1.42(152, 3)        1.30(119,21)        1.26( 92, 6)
      2027.       -390.     322.        2.99( 70, 6)        2.25(123, 3)        2.22( 26, 6)        2.09(127, 3)        2.08( 73,24)
      2027.        610.     317.        3.30(150, 6)        3.11(151, 6)        2.95( 95, 6)        2.94(128,24)        2.89(126, 3)
      2027.       1410.     313.        3.67(115, 3)        3.09(115,21)        2.69(104, 6)        2.57(115, 6)        2.49(114, 3)
      2037.       1231.     311.        6.18(115, 6)        5.25(115, 3)        4.73(116, 3)        4.28(  3, 9)        4.26(115,21)
      2027.       1610.     312.        3.41(115,21)        2.41(115, 3)        1.99(  3, 9)        1.92(114, 3)        1.72(359, 3)
      2027.       2610.     327.        1.64(109,18)        1.25(106, 3)        1.20( 63,18)        1.17(105,21)        1.16( 41, 6)
      2027.       3610.     342.        2.28(114, 3)        1.60( 87,21)        1.40( 81,21)        1.19(121,18)        1.16(115, 6)
      2027.       4610.     440.        2.00(114, 3)        1.12( 87,21)        1.09(120,24)        1.08( 81,21)        1.04( 84,21)
      2027.       5010.     469.        1.33(114, 3)        1.07( 84,21)        0.89(100,24)        0.85( 81,24)        0.77(121,18)
      2027.       5610.     515.        1.07( 81,24)        1.03( 84,21)        0.92(100,24)        0.63(114, 3)        0.59(128,18)
      2227.      -1590.     313.        1.95( 98, 6)        1.35(137, 3)        1.28(152, 3)        1.17(147,21)        1.10(132,24)
      2227.        610.     311.        4.23( 98, 6)        3.36(127, 3)        3.33(137, 3)        3.24(127, 6)        2.97(126, 3)
      2227.        810.     310.        3.34(109, 6)        3.20(149,24)        3.01(123, 6)        2.98( 95, 6)        2.96(359, 3)
      2227.       1210.     305.        5.67(134, 6)        4.17(120,21)        3.63(122,21)        3.43(106, 3)        3.11( 87, 3)
      2227.       1410.     305.        1.96( 88, 3)        1.94(134, 6)        1.93(115, 6)        1.69( 91,24)        1.64( 50,15)
      2227.       5010.     438.        2.96(114, 3)        1.41( 87,21)        1.30(120,24)        1.18( 81,21)        0.82(134,18)
      2427.      -1590.     309.        1.47( 98, 6)        1.34( 92, 6)        1.34(119,21)        1.24(132,24)        1.22(152, 3)
      2427.        410.     307.        2.60( 98, 6)        2.40(123, 3)        2.36(109, 6)        2.19(137, 3)        2.11(127, 6)
      2427.        610.     304.        3.16(109, 6)        3.11(123, 3)        2.85( 92, 6)        2.63(149,24)        2.44( 85, 3)
      2427.        810.     305.        2.55(123, 6)        2.18(149,24)        2.16(134,21)        2.09(359, 3)        2.07(135,21)
      2427.       1210.     305.        3.50( 89,21)        2.68( 95, 6)        2.68( 77,24)        2.64(135,24)        2.42(140,24)
      2427.       5010.     426.        2.23(114, 3)        0.74(137,24)        0.72(120,24)        0.63( 81,21)        0.61(115, 6)
      2627.      -1590.     304.        1.43( 92, 6)        1.35(119,21)        1.20(132,24)        1.02( 85, 3)        0.98(152, 3)
      2627.      -1390.     304.        1.27( 92, 6)        1.19( 85, 3)        1.18(109, 6)        1.05(269, 3)        1.05(265, 3)
      2627.       -390.     305.        1.68(133,21)        1.59(133, 6)        1.51(127, 3)        1.41(279, 6)        1.39(169,24)
1                                                                                                     POSTZ - PAGE NO.  13


                                HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
       METERS                                             VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.         HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
------------------------------------------------------------------------------------------------------------------------------------
      2627.       -190.     304.        1.76(128,24)        1.71(134,21)        1.65(146,24)        1.55(150, 6)        1.53(137, 6)
      2627.         10.     305.        2.37(134,21)        1.85(123, 3)        1.82(109, 6)        1.59(125,24)        1.55(149,21)
      2627.        210.     305.        2.21( 98, 6)        2.08(109, 6)        1.88(137, 3)        1.78( 82,24)        1.70(149,21)
      2627.        410.     305.        2.12( 92, 6)        2.02(109, 6)        1.94(123, 3)        1.82(135,21)        1.76(149,24)
      2627.        610.     305.        1.87(123, 3)        1.80(123, 6)        1.79(135,21)        1.70(282, 6)        1.66(149,24)
      2627.        810.     305.        2.21(123, 6)        1.83(127,24)        1.80(359, 3)        1.76(135,21)        1.73(147, 6)
      2627.       1010.     305.        2.36( 99,21)        1.84( 89,21)        1.72( 89,24)        1.69(359, 6)        1.69(141, 3)
      2627.       1210.     305.        2.12( 88, 3)        1.81(150,21)        1.40(103,21)        1.39(122, 6)        1.38( 99, 3)
      2262.        433.     311.        3.88(127, 6)        3.88(146,24)        3.79(137, 3)        3.71(125,24)        3.68( 98, 6)
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2627.	5010.	380.	1.26(115, 6)	0.99(92,21)	0.84(109,21)	0.77(110, 6)	0.70(9,24)
2827.	-1390.	301.	1.15(85, 3)	1.15(109, 6)	1.08(170, 6)	1.06(265, 3)	1.00(269, 3)
2827.	-1190.	302.	1.68(123, 3)	1.27(138, 6)	1.25(170, 6)	1.20(170, 3)	1.16(251,24)
2827.	-990.	302.	1.74(123, 3)	1.37(70, 6)	1.30(170, 6)	1.29(170, 3)	1.22(73,24)
2827.	-790.	302.	1.94(70, 6)	1.27(170, 6)	1.27(87,24)	1.26(279, 6)	1.26(268,24)
2827.	-590.	303.	1.59(127, 3)	1.38(169,24)	1.32(133, 6)	1.28(279, 6)	1.27(268,24)
2827.	-390.	303.	1.45(133, 6)	1.37(134,21)	1.32(241,21)	1.28(153, 6)	1.27(169,24)
2827.	-190.	303.	1.71(134,21)	1.42(241,21)	1.31(152, 3)	1.29(125, 6)	1.29(137, 3)
2827.	10.	303.	1.83(98, 6)	1.56(149,21)	1.54(137, 3)	1.42(134,21)	1.42(82,24)
2827.	5010.	358.	1.38(92,21)	1.20(93,24)	0.91(80, 6)	0.89(109,21)	0.85(114, 6)
3027.	-2390.	297.	1.37(98, 6)	0.96(147,21)	0.91(137, 3)	0.83(139, 3)	0.75(152, 3)
3027.	-1390.	298.	1.21(123, 3)	1.20(170, 6)	1.14(170, 3)	1.08(251,24)	1.06(138, 6)
3027.	-390.	300.	1.52(134,21)	1.30(241,21)	1.22(133, 6)	1.17(212, 3)	1.15(125, 6)
3027.	610.	301.	1.55(282, 6)	1.53(123, 6)	1.47(135,21)	1.34(147, 6)	1.29(282, 3)
3027.	1610.	302.	1.25(134, 6)	1.22(360,24)	1.11(63, 3)	1.09(70, 3)	1.01(144,21)
3027.	2610.	303.	0.95(103,21)	0.89(149,18)	0.88(153,18)	0.83(173, 6)	0.80(84, 3)
3027.	3610.	305.	1.03(122,21)	0.93(62, 3)	0.90(134, 6)	0.89(73,21)	0.85(115, 6)
3027.	4610.	333.	1.28(351,24)	0.97(80, 6)	0.94(97, 6)	0.84(115, 3)	0.78(108, 3)
3027.	5010.	348.	1.33(115, 3)	1.19(92,21)	1.19(351,24)	1.05(80, 6)	0.93(366, 6)
3027.	5610.	372.	1.35(92,21)	1.17(93,24)	0.85(114, 6)	0.83(115, 3)	0.82(80, 6)
3227.	5010.	338.	0.97(351,24)	0.83(97, 6)	0.80(80, 6)	0.70(11,24)	0.69(108, 3)
3227.	5210.	345.	1.28(351,24)	0.92(97, 6)	0.89(115, 3)	0.87(80, 6)	0.72(108, 3)
3227.	5610.	362.	1.35(115, 3)	1.21(92,21)	1.11(351,24)	0.94(80, 6)	0.92(137,21)
3227.	6010.	373.	1.27(92,21)	1.10(115, 3)	0.92(93,24)	0.86(114, 6)	0.83(80, 6)

* - DENOTES PEAK VALUE

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                 POSTZ              (DATED 86224)
1                                                                                              POSTZ - PAGE NO.   1



                                   POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                 POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - SOX - 04/20/92 - MPV
                 SHORTZ RUN TITLE:  *******************************************************************************

                 ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                     0
                 ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                               0
                 ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                 0
                 ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)      0
                 ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                0

            1-HOUR AVERAGE ANALYSIS:
                 ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    1
                 ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                    0
                 ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

            3-HOUR AVERAGE ANALYSIS:
                 ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    1
                 ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                   0
                 ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                               0

            8-HOUR AVERAGE ANALYSIS:
                 ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                   0
                 ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                   0
                 ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                               0

            24-HOUR AVERAGE ANALYSIS:
                 ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                   0
                 ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                   0
                 ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                               0

            ANNUAL AVERAGE ANALYSIS:
                 ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                   0
                 ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                   0
                 ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                               0

            USER-SPECIFIED AVERAGING TIME ANALYSIS
                 ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                   0
                 ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                   0
                 ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                               0

                 ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                        0
                 ISW(25) CALMS POLICY (1=YES,0=NO)                                            0


                 JULIAN DAY FOR START OF ANALYSIS                                             1
                 YEAR FOR START OF ANALYSIS                                                  91
                 JULIAN DAY FOR END OF ANALYSIS                                               5
                 YEAR FOR END OF ANALYSIS                                                    92
1                                                                                              POSTZ - PAGE NO.   2



                                        HIGH FIVE TABLE FOR     1 HOUR AVERAGES

RECEPTOR COORDINATES                                     HIGHEST FIVE CONCENTRATIONS
      METERS                                               VALUE(DAY,ENDING HOUR)

   X             Y        ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
----------------------------------------------------------------------------------------------------------------------------------
 -2973.        -290.     628.         14.44( 74, 3)       13.55( 23, 3)       13.19(  3, 1)       11.85(133, 6)       11.62(133, 4)
 -2973.        -190.     594.         14.37( 68,21)       14.06(352, 1)       11.12(  1,23)       10.49(114, 8)       10.36(115, 8)
 -2973.         -90.     561.         19.68( 68,21)       16.89(352, 1)       15.62(152,19)       13.74(106, 7)       13.21( 51, 3)
 -2973.          10.     601.         19.36(120,19)       18.82(107, 5)       18.21( 61,22)       16.99(117, 7)       16.65(151, 9)
 -2873.        -290.     616.         12.55( 74, 3)       11.71(108, 2)       11.09( 74, 5)       10.98( 51, 2)       10.58(  3, 1)
 -2873.        -190.     610.         18.14( 69, 3)       18.08( 52, 4)       16.10(  3, 1)       15.30( 74, 5)       13.01( 74, 3)
 -2873.         -90.     607.         18.37( 68,21)       16.62(352, 1)       14.69( 30, 3)       13.35( 74, 3)       13.19(  1,23)
 -2873.          10.     533.         18.17(  1,19)       18.10(152,19)       16.75( 61,22)       15.60( 68,21)       14.71(107, 5)
 -2773.        -290.     625.         17.10(  7,23)       16.09( 55,23)       14.34(351, 5)       13.26( 74, 5)       12.41(108, 5)
 -2773.        -190.     613.         18.74(351, 5)       17.35(  3, 1)       15.49(352, 2)       15.25( 74, 3)       14.80(  3, 5)
 -2773.         -90.     610.         22.94(108, 2)       17.56(  3, 5)       16.33( 29,22)       16.19( 49,24)       15.10( 74, 5)
 -2773.          10.     609.         26.78(  3, 1)       25.59( 74, 3)       24.47( 68,21)       23.76( 64, 3)       23.17( 47,23)
 -2673.        -290.     649.         17.41( 58,24)       16.98( 96,24)       16.93( 68,23)       16.57(351, 5)       14.78( 23, 5)
 -2673.        -190.     631.         21.05( 62, 1)       18.93( 58,24)       18.33( 68,23)       17.83(  3, 5)       17.08( 85,20)
 -2673.         -90.     610.         29.03(  4,23)       28.64( 40, 4)       25.42( 85,20)       24.81( 50, 3)       21.45( 62, 1)
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    -2673.        10.    564.      37.19( 55,23)      36.28(  7,23)      27.46( 10, 4)      27.40(108, 5)      24.44( 18,22)
    -2573.      -290.    640.      18.54(  2,23)      18.49(  2,24)      17.40( 47, 1)      16.73( 62, 1)      15.01( 18, 1)
    -2573.      -190.    622.      23.46(  2,24)      23.45(  2,23)      21.37(  4,23)      21.30( 40, 4)      20.71( 47, 1)
    -2573.       -90.    597.      30.43(  2,24)      30.28(  2,23)      28.07( 69, 5)      27.73( 18, 1)      26.65( 55,23)
    -2573.        10.    587.      40.88( 69, 5)      40.22(  2,24)      39.85(  2,23)      39.27( 18, 1)      35.27( 17, 3)
    -2473.      -290.    640.      17.14( 17, 3)      16.69( 22,24)      16.60( 30, 4)      16.48( 17, 2)      16.44( 56, 2)
    -2473.      -190.    596.      22.59(  1,21)      22.19( 56, 2)      22.05( 33, 3)      21.79( 22,24)      21.78( 30, 4)
    -2473.       -90.    582.      29.16( 59,21)      28.53( 22, 3)      27.77( 56, 2)      27.48(129,19)      26.31( 51, 4)
    -2473.        10.    555.      38.32( 65, 4)      38.15( 34,23)      37.39( 69, 4)      34.63(  9,21)      34.61( 11, 1)
    -2373.      -290.    646.      17.12(113,21)      17.03( 17, 1)      16.79( 23, 2)      16.77( 65, 3)      16.70(118,21)
    -2373.      -190.    604.      21.66( 47, 2)      21.37(  2,22)      21.17( 23, 2)      20.99( 56, 4)      20.86( 60, 2)
    -2373.       -90.    573.      26.61( 47, 2)      26.47( 56, 4)      26.27( 16,24)      26.13( 68, 5)      25.31( 60, 2)
    -2373.        10.    574.      36.99(  1,21)      36.22( 33, 3)      35.21( 17, 2)      34.91( 30, 4)      34.55( 22,24)
    -2273.      -290.    625.      17.32( 34,23)      16.98(  9,21)      16.97( 11, 1)      15.85( 84,24)      15.35( 97, 4)
    -2273.      -190.    610.      20.56( 18, 4)      20.44( 22, 1)      20.34(118,21)      19.59( 65, 3)      19.25( 17, 1)
    -2273.       -90.    558.      26.13(  2,22)      25.40( 69, 1)      23.72( 79, 4)      23.19(148,23)      22.66( 68,24)
    -2273.        10.    503.      25.16(  1,22)      14.10( 17, 5)      13.05( 56,22)      12.90( 48, 9)      12.84(  7, 5)
    -2173.      -290.    625.      14.63( 97, 3)      14.61(113,20)      13.94(352, 3)      13.94(352, 4)      13.74( 68, 5)
    -2173.      -190.    610.      18.70( 84,24)      18.16( 99,19)      17.77( 52, 2)      17.66( 59,22)      17.56(128,21)
    -2173.       -90.    564.      23.66( 61,24)      21.94(152,24)      21.19(128,22)      20.37(153, 1)      20.09( 79, 5)
    -2173.        10.    564.      30.10( 52, 2)      27.84( 10,24)      27.80( 40, 3)      26.94(  2,21)      26.79(114,19)
    -2073.      -290.    625.      13.48(132,24)      12.47( 40, 3)      12.21( 10,24)      12.20( 61,24)      11.03(114,19)
    -2073.      -190.    610.      16.67(146,24)      16.53(146,20)      16.03( 39,23)      15.37( 69,22)      15.10( 68,24)
    -2073.       -90.    564.      19.75(109, 3)      19.64(105,23)      18.67(110,23)      18.44(128,24)      17.73(149, 4)
    -2073.        10.    518.      17.64( 69,23)      17.55(147, 2)      16.12( 34,22)      15.36( 18,23)      14.37( 46,20)
    -1973.      -290.    510.       9.60(  2,21)       8.39( 52, 2)       8.38( 68,24)       7.04(143,18)       6.63( 12,22)
    -1973.      -190.    526.      14.28( 20,21)      14.09(105,23)      11.15(128, 3)      10.07(128,23)       9.78(149, 4)
    -1973.       -90.    548.      16.66(132,21)      16.49( 79,23)      16.47(107, 6)      15.81(153, 5)      15.58(119,19)
    -1973.        10.    549.      23.12( 59, 2)      20.41(132,23)      20.09(119,19)      20.08(119,21)      18.89(144,20)
    -1973.       110.    549.      22.28( 51,23)      22.18( 78, 4)      21.90(101, 1)      19.86(109, 2)      18.40(143,19)
    -1973.       210.    549.      27.45( 59,24)      26.57( 53, 1)      26.08( 78, 5)      25.61(133, 5)      25.49(153, 6)
    -1973.       310.    548.      38.53(146, 2)      37.78(102, 6)      37.66(144,21)      37.47(127,24)      37.46( 84, 2)
    -1973.       410.    547.      50.61( 60,22)*     48.96(105,24)*     48.53( 77,21)      48.30(127,23)      47.52(145,20)
    -1873.        10.    548.      16.59( 55,24)      15.27(108, 6)      14.27( 92, 3)      14.21(128, 2)      14.20(106, 2)
1                                                                                                   POSTZ - PAGE NO.   3


                                           HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                     HIGHEST FIVE CONCENTRATIONS
        METERS                                              VALUE(DAY,ENDING HOUR)

      X           Y       ELEV.       HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
    -1873.       110.    549.      19.72(102, 4)      19.09( 34, 2)      18.84(133, 6)      18.34(143,19)      18.02( 83,24)
    -1873.       210.    546.      24.55( 20,20)      23.97(108,20)      23.66(110,20)      23.61(102,22)      23.49( 82,24)
    -1873.       310.    534.      32.36(117, 3)      31.54( 83, 1)      30.92(128, 5)      30.79(127,22)      30.57(117,24)
    -1873.       410.    512.      23.89(100,24)      23.83( 40, 2)      22.49( 60,22)      22.43(145, 4)      22.35( 52,19)
    -1773.        10.    548.      15.26(109, 2)      15.25(106, 2)      14.78( 82, 6)      14.59(128, 2)      14.21(101, 1)
    -1773.       110.    549.      18.62( 51, 2)      18.21(119, 1)      17.61(106,22)      17.51(138,19)      17.26( 60, 3)
    -1773.       210.    539.      20.51( 11, 2)      20.36( 78, 2)      20.09( 99,23)      19.19(152,22)      19.17(109, 5)
    -1773.       310.    511.      18.96( 96, 3)      18.34(117,24)      16.79(100,23)      16.63(100,21)      15.85(103, 2)
    -1773.       410.    491.      11.53( 40, 2)      10.76(100, 5)      10.60( 52,19)      10.30(118, 3)      10.12(118, 4)
    -1673.        10.    548.      14.54(133, 6)      14.23(102, 4)      14.05( 23, 3)      14.02(143,19)      13.82( 83,24)
    -1673.       110.    543.      16.76(104, 1)      16.43(133, 5)      16.07( 78, 5)      15.42( 10, 2)      15.12( 59,24)
    -1673.       210.    520.      14.97( 99,23)      14.90( 78, 2)      13.90(131, 5)      13.87(101,22)      12.73( 82,23)
    -1673.       310.    496.      10.45(131,23)      10.23(103, 2)      10.14( 16,20)       9.42(105, 3)       9.01(105, 5)
    -1673.       410.    487.       9.79( 93,20)       9.02(117, 7)       8.76(100, 5)       8.30(118, 3)       8.20( 52,19)
    -1573.        10.    505.       9.72( 60, 3)       8.39(133, 4)       8.39(146, 3)       7.79( 40, 1)       7.64(106,22)
    -1573.       110.    504.       9.13(102,24)       8.23(106,23)       8.15( 32,22)       8.12(104,22)       8.06( 11, 2)
    -1573.       210.    495.       7.92(104,23)       7.52(351, 5)       7.37(143, 4)       6.92(352, 1)       6.64(131, 3)
    -1573.       310.    485.       8.13(351, 5)       7.10(131,23)       6.85( 16,20)       6.42(103, 2)       6.32(105, 3)
    -1573.       410.    482.      10.02( 93,20)       8.82(351, 5)       7.06(117, 7)       6.94(100, 5)       6.62(355, 4)

* - DENOTES PEAK VALUE
1                                                                                                   POSTZ - PAGE NO.   4


                                           HIGH FIVE TABLE FOR     3 HOUR AVERAGES

  RECEPTOR COORDINATES                                     HIGHEST FIVE CONCENTRATIONS
        METERS                                              VALUE(DAY,ENDING HOUR)

      X           Y       ELEV.       HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
    -2973.      -290.    628.       8.13(133, 6)       4.88(  1,18)       4.81( 74, 3)       4.80(  3, 3)       4.71(355, 9)
    -2973.      -190.    594.       5.57(115, 9)       5.32(114, 9)       4.83(  1,24)       4.80(108, 9)       4.79( 68,21)
    -2973.       -90.    561.       7.06( 29,24)       6.56( 68,21)       6.43(108, 9)       5.82(106, 9)       5.67(114, 9)
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   -2973.        10.    601.      7.77(106, 9)       6.64(107, 6)       6.45(120,21)       6.07( 61,24)       5.66(117, 9)
   -2873.      -290.    616.      5.20(  3, 6)       5.08( 30, 3)       4.90(133, 6)       4.45(  1,18)       4.18( 74, 3)
   -2873.      -190.    610.      6.53( 69, 3)       6.03( 52, 6)       6.02(355, 9)       5.76(  3, 3)       5.64(  1,18)
   -2873.       -90.    607.      8.42(108, 9)       6.84(  1,18)       6.55(115, 9)       6.24(114, 9)       6.22(355, 9)
   -2873.        10.    533.      7.89( 29,24)       7.61(114,15)       6.06(  1,21)       6.03(152,21)       5.67(108, 9)
   -2773.      -290.    625.      5.84(351, 6)       5.83(  7,24)       5.36( 55,24)       4.81(353,24)       4.58( 74, 6)
   -2773.      -190.    613.      8.05( 30, 3)       7.77(351, 6)       7.03(  3, 6)       6.17(102,24)       5.93(  3, 3)
   -2773.       -90.    610.     10.70( 30, 3)       8.94(  3, 6)       7.65(108, 3)       6.69( 55, 6)       6.60(355, 9)
   -2773.        10.    609.     13.69(  1,18)      12.11(108, 9)       9.47(355, 9)       9.41(  3, 3)       8.53( 74, 3)
   -2673.      -290.    649.      9.44(106, 6)       6.03(351, 6)       5.81( 58,24)       5.73( 96,24)       5.64( 68,24)
   -2673.      -190.    631.      7.02( 62, 3)       6.81(  3, 6)       6.42( 30, 3)       6.31( 58,24)       6.21(353,24)
   -2673.       -90.    610.     10.65(353,24)       9.68(  4,24)       9.56( 40, 6)       8.47( 85,21)       8.27( 50, 3)
   -2673.        10.    564.     13.03( 30, 3)      12.53(  1,18)      12.40( 55,24)      12.11(  7,24)       9.15( 10, 6)
   -2573.      -290.    640.     12.34(  2,24)      10.51( 18, 3)       7.70( 58,24)       7.30( 69, 6)       5.81( 47, 3)
   -2573.      -190.    622.     15.64(  2,24)      14.65( 18, 3)       9.37( 69, 6)       7.12(  4,24)       7.10( 40, 6)
   -2573.       -90.    597.     20.24(  2,24)      17.41( 18, 3)      13.68( 69, 6)       9.15( 55,24)       8.72( 36, 6)
   -2573.        10.    587.     26.69(  2,24)*     22.38( 18, 3)      22.12( 69, 6)      15.31( 51, 6)      13.64( 27,18)
   -2473.      -290.    640.     11.22( 17, 3)       9.99( 69, 6)       8.64( 18, 3)       7.93( 47, 3)       7.17(  2,24)
   -2473.      -190.    596.     14.23( 17, 3)      13.52( 69, 6)       9.90( 18, 3)       8.58( 56, 3)       7.78(  1,21)
   -2473.       -90.    582.     18.46( 69, 6)      14.00( 17, 3)      13.09(  3, 3)      12.94(152,21)      12.08( 56, 3)
   -2473.        10.    555.     23.20( 69, 6)      19.65( 65, 6)      17.10(106, 6)      16.83( 56, 3)      15.47( 24, 3)
   -2373.      -290.    646.      9.27( 60, 3)       7.09( 17, 3)       6.74( 97, 3)       6.64(113,21)       6.58( 23, 3)
   -2373.      -190.    604.     12.50( 60, 3)      12.49(113,21)      11.93( 97, 3)       8.57( 67, 6)       8.21( 22,24)
   -2373.       -90.    573.     16.21(113,21)      12.27( 20,24)      10.03( 22,24)       9.05( 47, 3)       8.88( 60, 3)
   -2373.        10.    574.     21.03(  3, 3)      17.28(153, 3)      16.46( 22,24)      16.03(152,24)      15.06(152,21)
   -2273.      -290.    625.      7.27(131,18)       6.99( 66, 6)       6.93( 11, 3)       5.77( 34,24)       5.71(  9,21)
   -2273.      -190.    610.      9.27( 66, 6)       7.64(131,18)       7.16( 56,24)       7.02( 22, 3)       6.85( 18, 6)
   -2273.       -90.    558.     13.59( 97, 3)      13.01( 79, 6)      11.27( 33,24)      10.98(146,21)      10.94( 67, 6)
   -2273.        10.    503.     10.00( 19,24)       8.73( 13, 6)       8.40(  1,24)       8.02( 56,24)       7.98( 12, 6)
   -2173.      -290.    625.      6.34(113,21)       6.24( 97, 3)       5.78(352, 3)       5.49(352, 6)       5.47( 20,24)
   -2173.      -190.    610.      8.67(146,21)       8.21( 52, 3)       7.98( 56,24)       7.83(130,18)       7.16(143,18)
   -2173.       -90.    564.     16.64(128,24)      13.28(153, 3)      13.20(146,24)      10.58( 79, 6)       9.95( 69,24)
   -2173.        10.    564.     20.79(146,21)      15.48( 52, 3)      15.20( 68, 3)      12.42(153, 6)      11.49( 12,24)
   -2073.      -290.    625.      6.85( 10,24)       5.69( 52, 3)       5.62(146,21)       5.17(115,18)       5.04(130,21)
   -2073.      -190.    610.     12.74(146,24)       8.65(146,21)       8.44( 69,24)       6.93(147, 3)       6.87( 12,24)
   -2073.       -90.    564.     11.79( 68, 3)      11.43(128,24)      11.18(146,21)      10.75(148,24)       8.29(146,24)
   -2073.        10.    518.      9.58(147, 3)       9.09( 34,24)       7.84( 69,24)       7.42( 35,24)       7.07(  3,24)
   -1973.      -290.    510.      4.22( 52, 3)       4.17( 12,24)       4.08( 11,24)       3.81( 69,24)       3.47(  2, 3)
   -1973.      -190.    526.      7.18( 68, 3)       5.81(128,24)       5.21( 24,21)       4.90( 30,24)       4.82(148,24)
   -1973.       -90.    548.     14.87(119,21)      12.92(148,21)      10.25( 79,24)      10.23(147, 3)       9.21(132,21)
   -1973.        10.    549.     19.44(119,21)      13.03(132,24)      12.69(123, 3)       8.76( 92, 6)       8.74(119,24)
   -1973.       110.    549.     13.25(133, 6)      11.00(123, 3)       9.68( 70, 6)       8.27( 78, 6)       7.90( 73,24)
   -1973.       210.    549.     15.43(108,21)      14.41(133, 6)      13.58(142,21)      13.54(102,24)      13.10(106,24)
   -1973.       310.    548.     25.77(147, 6)      23.89(101,24)*     23.75(127,24)      16.87(128, 6)      16.21(103, 3)
   -1973.       410.    547.     23.51(100, 6)      21.77(145, 6)      21.27( 89,24)      21.20(144, 6)      20.75(119, 6)
   -1873.        10.    548.      9.01(123, 3)       8.30( 73,24)       7.77(109, 6)       7.67( 70, 6)       7.01( 66, 3)
1
                                                                                              POSTZ - PAGE NO.   5


                                        HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
        METERS                                             VALUE(DAY,ENDING HOUR)

      X            Y       ELEV.       HIGHEST          2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
------------------------------------------------------------------------------------------------------------------------------
   -1873.       110.    549.     14.96(133, 6)       8.73( 53, 6)       8.42(141,24)       8.13(141,21)       7.80( 70, 6)
   -1873.       210.    546.     15.41(102,24)      13.24(142,21)      13.16(103,24)      12.52( 82,24)      11.19( 99,24)
   -1873.       310.    534.     20.03(127,24)      19.21(147, 6)      16.30(101,24)      14.04(103, 3)      13.17(128, 6)
   -1873.       410.    512.     17.84(100, 6)      14.77(144, 6)      13.57(118, 3)      12.20(145, 6)      11.97(138,18)
   -1773.        10.    548.      8.70( 70, 6)       7.58(133, 6)       7.33(123, 3)       5.72( 66, 3)       5.16( 73,24)
   -1773.       110.    549.     14.55(133, 6)       8.60(106,24)       8.59(141,24)       8.15(108,21)       6.71( 51, 3)
   -1773.       210.    539.     11.60( 99,24)      11.46( 82,24)       9.51(104,24)       9.48(142,21)       9.24(103,24)
   -1773.       310.    511.     10.41(103, 3)       8.74(127,24)       7.85(147, 6)       7.72(101,24)       6.32( 96, 3)
   -1773.       410.    491.      8.97(100, 6)       7.38(144, 6)       6.46(118, 3)       6.01(104, 3)       6.00( 21,21)
   -1673.        10.    548.      9.80(133, 6)       6.30( 70, 6)       5.65( 53, 6)       5.62(141,21)       5.18(143, 3)
   -1673.       110.    543.      8.62(102,24)       8.06(108,21)       6.93(133, 6)       6.67(106,24)       6.38(103,24)
   -1673.       210.    520.      8.50( 99,24)       7.48(131, 3)       7.23( 52,24)       6.51(101,24)       5.91(104,24)
   -1673.       310.    496.      6.63(103, 3)       4.01(131,24)       3.93(105, 3)       3.69( 93,21)       3.53(127,24)
   -1673.       410.    487.      7.24(100, 6)       5.95(144, 6)       5.62(118, 3)       4.77(104, 3)       4.60( 21,21)
   -1573.        10.    505.      5.58(133, 6)       4.77(141,24)       3.68(141,21)       3.24( 60, 3)       3.13(143, 3)
   -1573.       110.    504.      5.71(102,24)       5.09(142,21)       5.05(103,24)       3.27( 52,21)       3.25(142, 3)
   -1573.       210.    495.      4.17(131, 3)       3.89( 52,24)       3.75(101,24)       3.73(352, 3)       3.00(104,24)
   -1573.       310.    485.      4.36(103, 3)       3.50(352, 3)       3.08(351, 6)       2.81(131,24)       2.79(114, 9)
   -1573.       410.    482.      5.72(100, 6)       4.73(144, 6)       4.66(118, 3)       3.81( 93,21)       3.72(104, 3)

 * - DENOTES PEAK VALUE
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         POSTZ               (DATED 86224)
1                                                                          POSTZ - PAGE NO.   1



                              POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

         POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - SOX - 04/20/92 - MPV
         SHORTZ RUN TITLE:  ********************************************************************************

         ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                         0
         ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                   0
         ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                     0
         ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)          0
         ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                    0

    1-HOUR AVERAGE ANALYSIS:
         ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
         ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
         ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

    3-HOUR AVERAGE ANALYSIS:
         ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
         ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                       0
         ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

    8-HOUR AVERAGE ANALYSIS:
         ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
         ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
         ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

    24-HOUR AVERAGE ANALYSIS:
         ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
         ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
         ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

    ANNUAL AVERAGE ANALYSIS:
         ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
         ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
         ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

    USER-SPECIFIED AVERAGING TIME ANALYSIS
         ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
         ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
         ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

         ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                            0
         ISW(25) CALMS POLICY (1=YES,0=NO)                                                0


         JULIAN DAY FOR START OF ANALYSIS                                                 1
         YEAR FOR START OF ANALYSIS                                                      91
         JULIAN DAY FOR END OF ANALYSIS                                                   5
         YEAR FOR END OF ANALYSIS                                                        92
1                                                                          POSTZ - PAGE NO.   2



                                 HIGH FIVE TABLE FOR    24 HOUR AVERAGES

 RECEPTOR COORDINATES                         HIGHEST FIVE CONCENTRATIONS
      METERS                                   VALUE(DAY,ENDING HOUR)

   X          Y      ELEV.       HIGHEST          2ND HIGH         3RD HIGH         4TH HIGH         5TH HIGH
-----------------------------------------------------------------------------------------------------------------
  -5973.    -2390.    798.     0.07(  1,24)     0.06(114,24)     0.05( 97,24)     0.05(355,24)     0.04(357,24)
  -5973.    -1390.    793.     0.14( 51,24)     0.10(365,24)     0.10(114,24)     0.09(108,24)     0.09(106,24)
  -5973.     -390.    781.     0.29(  7,24)     0.18( 77,24)     0.15( 68,24)     0.11( 72,24)     0.10(124,24)
  -5973.      610.    852.     0.28( 77,24)     0.21( 70,24)     0.20( 74,24)     0.18(111,24)     0.17(144,24)
  -5973.     1610.    731.     0.34( 70,24)     0.26( 74,24)     0.24( 96,24)     0.23(134,24)     0.21(105,24)
  -5973.     2610.    730.     0.24( 74,24)     0.20(136,24)     0.20(132,24)     0.19( 94,24)     0.16( 96,24)
  -5973.     3610.    728.     0.11( 95,24)     0.11(123,24)     0.10( 77,24)     0.10( 74,24)     0.09( 98,24)
  -5973.     4610.    747.     0.09(132,24)     0.07(136,24)     0.07( 96,24)     0.07(139,24)     0.07(148,24)
  -5973.     5610.    625.     0.10( 96,24)     0.08(147,24)     0.08(218,24)     0.07( 70,24)     0.06( 74,24)
  -4973.    -2390.    797.     0.12(114,24)     0.08(115,24)     0.07(117,24)     0.07(  1,24)     0.06(351,24)
  -4973.    -1390.    731.     0.24(350,24)     0.23( 74,24)     0.17( 55,24)     0.14(351,24)     0.13(113,24)
  -4973.     -390.    652.     0.43(365,24)     0.34(106,24)     0.33(120,24)     0.28(151,24)     0.28(117,24)
  -4973.     1610.    771.     0.44(123,24)     0.36(107,24)     0.36(100,24)     0.35( 95,24)     0.31(147,24)
  -4973.     2610.    792.     0.20( 74,24)     0.17(112,24)     0.15(134,24)     0.15( 39,24)     0.14(152,24)
  -4973.     3610.    904.     0.13(132,24)     0.12(136,24)     0.12(150,24)     0.11( 75,24)     0.10(125,24)
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    -4973.      4610.    858.      0.10(100,24)      0.10(107,24)      0.08( 96,24)      0.07( 95,24)      0.07(105,24)
    -4973.      5610.    570.      0.09( 96,24)      0.09(107,24)      0.08(134,24)      0.08(218,24)      0.07(149,24)
    -4773.       410.    646.      2.07( 77,24)      1.91( 88,24)      1.80(106,24)      1.58( 74,24)      1.50( 95,24)
    -4773.       610.    669.      2.16(105,24)      2.13( 96,24)      1.76( 89,24)      1.74( 70,24)      1.61(151,24)
    -4773.       810.    666.      1.46(132,24)      1.29(133,24)      1.29(112,24)      1.00(150,24)      0.91(120,24)
    -4773.      1010.    695.      1.06(132,24)      0.90( 74,24)      0.85( 94,24)      0.84(133,24)      0.83(136,24)
    -4773.      1210.    730.      0.67(123,24)      0.58(147,24)      0.53( 95,24)      0.51(100,24)      0.51(107,24)
    -4773.      1210.    730.      0.67(123,24)      0.58(147,24)      0.53( 95,24)      0.51(100,24)      0.51(107,24)
    -4573.       410.    633.      3.78( 94,24)      3.07( 88,24)      3.01(113,24)      2.96( 72,24)      2.74(105,24)
    -4573.      1210.    722.      0.64( 39,24)      0.58(148,24)      0.49( 45,24)      0.47( 92,24)      0.47(149,24)
    -4573.      4810.    853.      0.09(134,24)      0.08(135,24)      0.08( 89,24)      0.07( 92,24)      0.07( 96,24)
    -4373.        10.    609.      3.70(  1,24)      2.85(365,24)      1.85(350,24)      1.80(357,24)      1.71(  3,24)
    -4373.       210.    554.      0.66( 77,24)      0.55(354,24)      0.50( 72,24)      0.42(107,24)      0.42(361,24)
    -4373.       410.    583.      2.64( 67,24)      2.48( 69,24)      2.15( 66,24)      2.06( 75,24)      1.76(112,24)
    -4373.      1410.    694.      0.49( 92,24)      0.48( 38,24)      0.45( 76,24)      0.43( 45,24)      0.41( 86,24)
    -4373.      1610.    756.      0.40( 92,24)      0.39( 76,24)      0.38( 89,24)      0.36( 86,24)      0.36( 38,24)
    -4373.      1610.    756.      0.40( 92,24)      0.39( 76,24)      0.38( 89,24)      0.36( 86,24)      0.36( 38,24)
    -4373.      4810.    856.      0.07(144,24)      0.07(152,24)      0.07(149,24)      0.07(148,24)      0.07(101,24)
    -4173.        10.    553.      0.94(  1,24)      0.81(347,24)      0.75(230,24)      0.57(346,24)      0.56(329,24)
    -4173.      1610.    787.      0.49( 74,24)      0.45( 63,24)      0.43( 70,24)      0.41( 64,24)      0.36( 41,24)
    -4173.      4810.    828.      0.09(134,24)      0.09(133,24)      0.07(104,24)      0.07(101,24)      0.07(152,24)
    -3973.     -2390.    767.      0.20( 23,24)      0.16( 74,24)      0.14( 73,24)      0.12( 78,24)      0.12( 55,24)
    -3973.     -1390.    732.      0.30(114,24)      0.30( 22,24)      0.28(  1,24)      0.27( 23,24)      0.25( 55,24)
    -3973.      -390.    548.      0.69(249,24)      0.53( 27,24)      0.50( 26,24)      0.48(157,24)      0.45( 19,24)
    -3973.        10.    549.      1.89( 20,24)      1.62( 12,24)      1.50( 16,24)      1.36( 25,24)      1.34(  2,24)
    -3973.       610.    722.      2.40( 37,24)      2.31( 62,24)      2.00( 29,24)      1.80( 28,24)      1.58( 41,24)
    -3973.      1610.    773.      0.55( 41,24)      0.54(134,24)      0.50( 84,24)      0.44( 44,24)      0.42(128,24)
    -3973.      2610.    875.      0.20(128,24)      0.20( 88,24)      0.19( 41,24)      0.18(133,24)      0.17(147,24)
    -3973.      3610.    914.      0.11(148,24)      0.11(149,24)      0.09(105,24)      0.09(128,24)      0.09(134,24)
    -3973.      4610.    954.      0.07( 39,24)      0.07(132,24)      0.07(134,24)      0.06(133,24)      0.06( 96,24)
    -3973.      4810.    838.      0.09(134,24)      0.08(133,24)      0.07(132,24)      0.07( 39,24)      0.07(152,24)
    -3973.      5610.    686.      0.09( 84,24)      0.09(133,24)      0.08( 74,24)      0.07( 45,24)      0.06(112,24)
    -3773.        10.    549.      1.00(  4,24)      0.76(327,24)      0.75( 34,24)      0.74(336,24)      0.69(156,24)
    -3773.      1610.    755.      0.38( 29,24)      0.36(133,24)      0.36(112,24)      0.35(109,24)      0.35( 74,24)
1                                                                                                       POSTZ - PAGE NO.   3


                                             HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                           HIGHEST FIVE CONCENTRATIONS
       METERS                                                    VALUE(DAY,ENDING HOUR)

     X           Y       ELEV.         HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
--------------------------------------------------------------------------------------------------------------------------------
    -3773.      1810.    792.      0.41(132,24)      0.38(109,24)      0.28(150,24)      0.28( 29,24)      0.28(120,24)
    -3773.      2010.    824.      0.36(132,24)      0.29(109,24)      0.29(136,24)      0.25( 85,24)      0.25(150,24)
    -3773.      4810.    839.      0.09(134,24)      0.07(133,24)      0.07(132,24)      0.07(152,24)      0.06(112,24)
    -3573.        10.    549.      0.70(  7,24)      0.67(107,24)      0.59( 35,24)      0.59(336,24)      0.47(327,24)
    -3573.      2010.    848.      0.27(147,24)      0.26(123,24)      0.23(133,24)      0.22(366,24)      0.20(100,24)
    -3573.      4810.    852.      0.12(134,24)      0.07(112,24)      0.07(132,24)      0.07(150,24)      0.06( 75,24)
    -3373.        10.    549.      0.41(336,24)      0.37(131,24)      0.36(146,24)      0.36(103,24)      0.35( 32,24)
    -3373.      2010.    799.      0.34(123,24)      0.32( 77,24)      0.29( 95,24)      0.25(107,24)      0.24( 82,24)
    -3373.      4810.    831.      0.12(134,24)      0.08(133,24)      0.08(150,24)      0.07(112,24)      0.07(121,24)
    -3273.      2010.    787.      0.37( 29,24)      0.34(148,24)      0.32( 77,24)      0.30(123,24)      0.29(122,24)
    -3273.      2210.    841.      0.30(148,24)      0.23(149,24)      0.23(123,24)      0.22(  3,24)      0.20(146,24)
    -3273.      2410.    862.      0.22(148,24)      0.20(  3,24)      0.18( 39,24)      0.18(146,24)      0.18(123,24)
    -3173.        10.    567.      1.01( 96,24)      0.89(102,24)      0.84( 46,24)      0.77(131,24)      0.70(  9,24)
    -3173.      2410.    841.      0.21(146,24)      0.21( 39,24)      0.19(122,24)      0.18(152,24)      0.18( 73,24)
    -3173.      4810.    806.      0.09(134,24)      0.09(133,24)      0.08(112,24)      0.07(150,24)      0.07(107,24)
    -2973.     -2390.    661.      0.25(106,24)      0.19(352,24)      0.16( 56,24)      0.15( 84,24)      0.15( 99,24)
    -2973.     -1390.    613.      0.44( 40,24)      0.35(146,24)      0.34( 31,24)      0.32(143,24)      0.31(130,24)
    -2973.      -390.    609.      0.92( 74,24)      0.87(  3,24)      0.67(350,24)      0.65( 61,24)      0.64(355,24)
    -2973.        10.    601.      1.31(365,24)      0.99(131,24)      0.96(101,24)      0.94(106,24)      0.94(114,24)
    -2973.       610.    579.      3.03( 96,24)      3.00(105,24)      2.48(122,24)      2.41( 94,24)      2.24( 88,24)
    -2973.      1610.    823.      0.44( 39,24)      0.35(148,24)      0.32(149,24)      0.31( 92,24)      0.29( 77,24)
    -2973.      2410.    784.      0.31(122,24)      0.27( 62,24)      0.24(151,24)      0.23( 29,24)      0.20(125,24)
    -2973.      2610.    786.      0.26( 62,24)      0.26(122,24)      0.19( 29,24)      0.19( 70,24)      0.17(127,24)
    -2973.      3610.    865.      0.13( 89,24)      0.12(366,24)      0.11(135,24)      0.11(150,24)      0.11(105,24)
    -2973.      4610.    770.      0.09(133,24)      0.09(135,24)      0.08( 38,24)      0.08( 44,24)      0.08(134,24)
    -2973.      4810.    747.      0.09(133,24)      0.08(112,24)      0.08( 38,24)      0.08(135,24)      0.08( 44,24)
    -2973.      5610.    642.      0.09(132,24)      0.09( 76,24)      0.07(113,24)      0.06( 45,24)      0.06(150,24)
    -2773.        10.    609.      2.96(  1,24)      2.84(114,24)      2.17(  3,24)      2.15(  1,24)      1.95(352,24)
    -2773.      2410.    731.      0.34( 70,24)      0.28(101,24)      0.28( 92,24)      0.25( 10,24)      0.24(122,24)
    -2773.      4810.    724.      0.09(133,24)      0.08(132,24)      0.08(366,24)      0.08( 44,24)      0.08(120,24)
    -2573.        10.    587.      3.69( 27,24)      3.38(  2,24)      3.10( 18,24)      2.89(351,24)      2.82( 69,24)
    -2573.      2410.    732.      0.38(104,24)      0.36( 92,24)      0.29( 74,24)      0.28(133,24)      0.25(144,24)
    -2573.      4810.    713.      0.11(133,24)      0.10(132,24)      0.09(104,24)      0.09(366,24)      0.08(144,24)
    -2373.        10.    574.      5.17(130,24)      4.01( 15,24)      3.92( 22,24)      3.84(152,24)      3.57( 27,24)
    -2373.      2410.    726.      0.38( 41,24)      0.32(104,24)      0.27( 63,24)      0.27( 74,24)      0.26( 84,24)
  -2373.     4810.   700.     0.11(132,24)     0.11(133,24)     0.10( 41,24)     0.10( 78,24)     0.09(  3,24)
  -2173.       10.   564.     4.09(146,24)     3.78( 31,24)     3.63(  6,24)     3.58( 16,24)     3.41(130,24)
  -2173.     2410.   675.     0.53(114,24)     0.31(120,24)     0.30( 41,24)     0.29(134,24)     0.28( 84,24)
  -2173.     4810.   675.     0.12(132,24)     0.10( 84,24)     0.10( 63,24)     0.10( 45,24)     0.09( 41,24)
  -1973.    -2390.   487.     0.20(114,24)     0.18(152,24)     0.18(124,24)     0.17(355,24)     0.15(362,24)
  -1973.    -1390.   522.     0.34( 34,24)     0.34(  9,24)     0.33( 65,24)     0.29( 97,24)     0.26( 22,24)
  -1973.     -390.   487.     0.91(130,24)     0.82( 31,24)     0.79( 15,24)     0.78( 25,24)     0.76( 20,24)
  -1973.     -190.   526.     1.50( 16,24)     1.47( 20,24)     1.25(128,24)     1.20(  3,24)     1.18( 68,24)
  -1973.       10.   549.     4.16(119,24)     2.31(120,24)     2.20(132,24)     1.63(123,24)     1.42(109,24)
  -1973.      210.   549.     5.24(142,24)     4.07(131,24)     2.46(110,24)     2.39(133,24)     2.25( 32,24)
  -1973.      410.   547.     6.63(145,24)*    6.25(100,24)*    5.71(144,24)     5.23(118,24)     4.60(111,24)
  -1973.      610.   479.     1.31( 54,24)     1.23(121,24)     1.19( 42,24)     1.16(215,24)     0.92( 30,24)
  -1973.     1610.   768.     0.67( 62,24)     0.62(122,24)     0.57( 73,24)     0.56(116,24)     0.55( 70,24)
  -1973.     2410.   675.     0.28(114,24)     0.25(105,24)     0.25(  9,24)     0.23( 50,24)     0.22(109,24)
1                                                                                    POSTZ - PAGE NO.   4


                                   HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                     HIGHEST FIVE CONCENTRATIONS
      METERS                                               VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.       HIGHEST          2ND HIGH         3RD HIGH         4TH HIGH         5TH HIGH
-----------------------------------------------------------------------------------------------------------------
  -1973.     2610.   799.     0.22(105,24)     0.21(134,24)     0.19(109,24)     0.18(132,24)     0.17( 96,24)
  -1973.     3610.   696.     0.22(120,24)     0.22(134,24)     0.22(133,24)     0.15( 84,24)     0.14( 44,24)
  -1973.     4610.   628.     0.14( 62,24)     0.13(132,24)     0.12( 74,24)     0.11(114,24)     0.10(127,24)
  -1973.     4810.   646.     0.14( 62,24)     0.12(132,24)     0.10( 76,24)     0.10( 75,24)     0.09( 84,24)
  -1973.     5610.   597.     0.13(107,24)     0.09(100,24)     0.08( 84,24)     0.07(147,24)     0.07( 75,24)
  -1773.     -790.   529.     0.78(143,24)     0.73(130,24)     0.68(146,24)     0.66(153,24)     0.46( 15,24)
  -1773.     -590.   497.     0.67( 31,24)     0.65(143,24)     0.64( 20,24)     0.61(130,24)     0.58( 16,24)
  -1773.      210.   539.     2.29(131,24)     2.25(142,24)     2.06( 99,24)     1.84(110,24)     1.64( 82,24)
  -1773.      410.   491.     2.27(100,24)     1.80(118,24)     1.60(144,24)     1.18(104,24)     1.17(145,24)
  -1773.     2410.   668.     0.27(147,24)     0.25( 91,24)     0.25(123,24)     0.24(134,24)     0.23(366,24)
  -1773.     4810.   609.     0.24(114,24)     0.12(120,24)     0.11(132,24)     0.11( 74,24)     0.11( 62,24)
  -1573.    -1190.   433.     0.21(130,24)     0.20( 15,24)     0.19( 27,24)     0.17( 21,24)     0.17( 25,24)
  -1573.     -990.   459.     0.34(130,24)     0.32( 31,24)     0.29(143,24)     0.25( 25,24)     0.25( 12,24)
  -1573.     -790.   482.     0.44( 31,24)     0.40( 20,24)     0.38( 16,24)     0.37(143,24)     0.35( 68,24)
  -1573.     -590.   487.     0.46(  3,24)     0.39( 16,24)     0.36( 48,24)     0.32( 35,24)     0.32( 68,24)
  -1573.     -390.   465.     0.52(  6,24)     0.50(120,24)     0.44(119,24)     0.29(177,24)     0.29( 18,24)
  -1573.     -190.   475.     0.64(  4,24)     0.42( 34,24)     0.42(142,24)     0.37(  1,24)     0.31( 30,24)
  -1573.       10.   505.     1.12(141,24)     1.01(142,24)     1.00(131,24)     0.85(133,24)     0.67( 53,24)
  -1573.      210.   495.     1.06(131,24)     0.74( 99,24)     0.63(101,24)     0.63(143,24)     0.55( 52,24)
  -1573.      410.   482.     1.50(100,24)     1.30(118,24)     1.03(144,24)     0.82(104,24)     0.77(111,24)
  -1573.     2410.   648.     0.51( 62,24)     0.32( 96,24)     0.28(134,24)     0.27(146,24)     0.27(123,24)
  -1573.     4810.   609.     0.18(114,24)     0.12( 74,24)     0.11(133,24)     0.11(127,24)     0.11(107,24)
  -1373.    -1190.   427.     0.22( 31,24)     0.19(130,24)     0.17( 20,24)     0.16( 12,24)     0.16(363,24)
  -1373.     2410.   609.     0.48( 62,24)     0.42( 96,24)     0.34(107,24)     0.34(122,24)     0.33( 74,24)
  -1373.     4810.   575.     0.15(107,24)     0.13(133,24)     0.09(127,24)     0.09(147,24)     0.09( 63,24)
  -1173.    -1190.   423.     0.17(364,24)     0.16(301,24)     0.16(221,24)     0.15( 85,24)     0.15( 46,24)
  -1173.     -990.   423.     0.19(301,24)     0.18(221,24)     0.16(364,24)     0.16(363,24)     0.16(  3,24)
  -1173.     -790.   424.     0.23(  6,24)     0.20(363,24)     0.17(364,24)     0.17(177,24)     0.17(356,24)
  -1173.     -590.   425.     0.25(120,24)     0.23(363,24)     0.19(364,24)     0.19( 18,24)     0.19(119,24)
  -1173.     -390.   425.     0.27(363,24)     0.26(  4,24)     0.22( 23,24)     0.21(364,24)     0.20(107,24)
  -1173.     2410.   610.     0.45(133,24)     0.44( 96,24)     0.34(107,24)     0.33( 70,24)     0.33( 63,24)
  -1173.     4810.   555.     0.13(107,24)     0.12(133,24)     0.12(123,24)     0.09( 94,24)     0.09(109,24)
   -973.    -2390.   407.     0.23(  1,24)     0.23(352,24)     0.20(114,24)     0.17(365,24)     0.15(115,24)
   -973.    -1390.   411.     0.18(364,24)     0.17( 61,24)     0.17(357,24)     0.16(365,24)     0.16(114,24)
   -973.     -390.   421.     0.32(124,24)     0.25( 23,24)     0.20(149,24)     0.20(364,24)     0.19(112,24)
   -973.     -190.   423.     0.38(124,24)     0.30( 93,24)     0.28( 94,24)     0.28( 98,24)     0.27( 23,24)
   -973.      610.   387.     1.62(124,24)     1.03(135,24)     0.99(  3,24)     0.99( 97,24)     0.97(113,24)
   -973.     1610.   594.     1.21( 62,24)     1.00( 63,24)     0.86(107,24)     0.74( 45,24)     0.74(104,24)
   -973.     2410.   610.     0.39(120,24)     0.38( 96,24)     0.37( 92,24)     0.35(106,24)     0.32(105,24)
   -973.     2610.   609.     0.39(133,24)     0.30( 96,24)     0.28(120,24)     0.28(132,24)     0.27(134,24)
   -973.     3610.   609.     0.31( 62,24)     0.19( 63,24)     0.18(132,24)     0.17(133,24)     0.15(127,24)
   -973.     4610.   551.     0.12(123,24)     0.12(107,24)     0.11(108,24)     0.10( 94,24)     0.10( 97,24)
   -973.     4810.   549.     0.11(123,24)     0.10(366,24)     0.10(107,24)     0.09( 94,24)     0.09( 97,24)
   -973.     5610.   549.     0.09( 78,24)     0.08( 29,24)     0.08(110,24)     0.07(290,24)     0.07(233,24)
   -773.     -190.   420.     0.47(124,24)     0.40( 97,24)     0.36( 98,24)     0.30(107,24)     0.29(352,24)
   -773.     2010.   603.     0.53( 63,24)     0.46( 62,24)     0.46(107,24)     0.45( 96,24)     0.45(114,24)
   -773.     2210.   610.     0.50( 62,24)     0.46( 63,24)     0.44( 96,24)     0.41(140,24)     0.37(114,24)
   -773.     2410.   610.     0.38(120,24)     0.37( 96,24)     0.36(140,24)     0.35( 62,24)     0.32(105,24)
   -773.     4810.   549.     0.13( 78,24)     0.11(107,24)     0.10(123,24)     0.09( 63,24)     0.09(108,24)
1                                                                                    POSTZ - PAGE NO.   5


                                   HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)
 RECEPTOR COORDINATES                                       HIGHEST FIVE CONCENTRATIONS
       METERS                                               VALUE(DAY,ENDING HOUR)

     X           Y        ELEV.         HIGHEST          2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------
    -573.       -190.     417.       0.60(124,24)       0.39( 97,24)       0.36( 98,24)       0.32(135,24)       0.32(352,24)
    -573.       2010.     593.       0.57( 62,24)       0.50( 96,24)       0.45(140,24)       0.42(134,24)       0.42( 70,24)
    -573.       2210.     609.       0.45( 96,24)       0.43(140,24)       0.39( 70,24)       0.38(114,24)       0.37(134,24)
    -573.       2410.     610.       0.44( 62,24)       0.35(114,24)       0.34( 96,24)       0.34(120,24)       0.31(140,24)
    -573.       4810.     572.       0.12( 78,24)       0.11( 62,24)       0.09( 94,24)       0.09( 79,24)       0.09( 63,24)
    -373.       -390.     410.       0.35(352,24)       0.35(124,24)       0.31( 97,24)       0.28(135,24)       0.25(142,24)
    -373.       -190.     418.       0.40(352,24)       0.39(124,24)       0.36(112,24)       0.35( 97,24)       0.34(135,24)
    -373.       2010.     564.       0.61( 62,24)       0.54( 96,24)       0.52(123,24)       0.49(132,24)       0.48( 70,24)
    -373.       2210.     594.       0.44( 96,24)       0.43( 62,24)       0.41(134,24)       0.38(133,24)       0.38( 74,24)
    -373.       2410.     599.       0.43( 74,24)       0.41(133,24)       0.38( 96,24)       0.35(132,24)       0.33( 67,24)
    -373.       4810.     598.       0.17( 62,24)       0.12( 78,24)       0.09(114,24)       0.09( 77,24)       0.09(290,24)
    -173.       -390.     402.       0.37(352,24)       0.32(146,24)       0.29(135,24)       0.28(124,24)       0.26(107,24)
    -173.       2410.     502.       0.50(140,24)       0.45(133,24)       0.36(123,24)       0.35(132,24)       0.35( 96,24)
    -173.       4810.     609.       0.15(114,24)       0.14( 62,24)       0.12( 29,24)       0.11( 39,24)       0.10( 37,24)
      27.      -2390.     366.       0.19(350,24)       0.17(365,24)       0.16(221,24)       0.14(353,24)       0.13(  1,24)
      27.      -1390.     366.       0.37(  1,24)       0.34(365,24)       0.31(114,24)       0.26(352,24)       0.23(  1,24)
      27.       -590.     384.       0.31(146,24)       0.28(114,24)       0.27(352,24)       0.27(117,24)       0.27(124,24)
      27.       -390.     392.       0.41(146,24)       0.38(124,24)       0.29(352,24)       0.28(135,24)       0.28(126,24)
      27.        610.     293.       0.57( 73,24)       0.55(133,24)       0.54( 70,24)       0.48(109,24)       0.47(134,24)
      27.       1610.     502.       1.03(139,24)       0.88( 70,24)       0.82( 89,24)       0.79(140,24)       0.78( 96,24)
      27.       2410.     428.       0.46(123,24)       0.38(133,24)       0.36(132,24)       0.30(150,24)       0.30(140,24)
      27.       2610.     489.       0.36( 96,24)       0.36(123,24)       0.34( 91,24)       0.33(132,24)       0.32( 94,24)
      27.       3610.     555.       0.20( 62,24)       0.15(123,24)       0.15( 94,24)       0.14( 65,24)       0.14( 78,24)
      27.       4610.     605.       0.14( 39,24)       0.13( 45,24)       0.12( 63,24)       0.11( 62,24)       0.10(  3,24)
      27.       4810.     609.       0.13( 45,24)       0.13(  3,24)       0.13( 39,24)       0.11( 62,24)       0.10(114,24)
      27.       5610.     487.       0.14( 86,24)       0.13(285,24)       0.13( 62,24)       0.11( 45,24)       0.11(150,24)
     227.       -590.     373.       0.40(365,24)       0.39(114,24)       0.36(146,24)       0.32(352,24)       0.29(355,24)
     227.       2410.     426.       0.40( 91,24)       0.38(132,24)       0.36(123,24)       0.35( 96,24)       0.34( 94,24)
     227.       4810.     608.       0.15( 45,24)       0.12( 63,24)       0.12( 10,24)       0.12( 39,24)       0.11( 37,24)
     427.       -790.     365.       0.63(114,24)       0.56(365,24)       0.46(  1,24)       0.34(  1,24)       0.31(364,24)
     427.       -590.     366.       0.61(365,24)       0.61(114,24)       0.38(352,24)       0.37(126,24)       0.37(364,24)
     427.       2410.     424.       0.41( 91,24)       0.38(134,24)       0.35(123,24)       0.33(120,24)       0.31(147,24)
     427.       4810.     575.       0.14( 45,24)       0.12( 78,24)       0.12( 10,24)       0.10( 63,24)       0.09(104,24)
     627.       -790.     360.       0.60(365,24)       0.52(  1,24)       0.51(114,24)       0.48(  1,24)       0.38(  3,24)
     627.       2410.     408.       0.41(134,24)       0.38(120,24)       0.32( 38,24)       0.31( 91,24)       0.31(123,24)
     627.       4810.     548.       0.19(107,24)       0.12(123,24)       0.12( 82,24)       0.12(104,24)       0.12( 37,24)
     827.       -790.     355.       0.64(350,24)       0.47(365,24)       0.42(  1,24)       0.40(  1,24)       0.40(351,24)
     827.       2410.     372.       0.39( 39,24)       0.37(134,24)       0.37(120,24)       0.35( 45,24)       0.35( 78,24)
     827.       4810.     563.       0.28(107,24)       0.15( 86,24)       0.14( 63,24)       0.14(123,24)       0.12( 93,24)
    1027.      -2390.     339.       0.15(363,24)       0.14(  3,24)       0.13(106,24)       0.13(119,24)       0.12( 56,24)
    1027.      -1390.     346.       0.28( 18,24)       0.25(351,24)       0.24(350,24)       0.22(  4,24)       0.21(363,24)
    1027.       -790.     350.       0.67(350,24)       0.54(351,24)       0.33( 19,24)       0.31(  1,24)       0.31(126,24)
    1027.       -390.     351.       0.99(350,24)       0.78(365,24)       0.73(  1,24)       0.59(351,24)       0.54(114,24)
    1027.        610.     320.       0.43(149,24)       0.37(279,24)       0.37(111,24)       0.36( 89,24)       0.35(241,24)
    1027.       1610.     398.       1.02(218,24)       0.99(123,24)       0.84(122,24)       0.83( 76,24)       0.82( 70,24)
    1027.       2410.     363.       0.49( 45,24)       0.44( 39,24)       0.37( 86,24)       0.34( 38,24)       0.34( 92,24)
    1027.       2610.     365.       0.44( 45,24)       0.40( 86,24)       0.34( 38,24)       0.33( 39,24)       0.32(120,24)
    1027.       3610.     422.       0.38(107,24)       0.34( 86,24)       0.27( 93,24)       0.21( 92,24)       0.21( 38,24)
    1027.       4610.     541.       0.25(107,24)       0.17( 81,24)       0.17( 86,24)       0.14( 63,24)       0.14( 38,24)
1                                                                                                  POSTZ - PAGE NO.    6

                                       HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                       HIGHEST FIVE CONCENTRATIONS
       METERS                                               VALUE(DAY,ENDING HOUR)

     X           Y        ELEV.         HIGHEST          2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------
    1027.       4810.     548.       0.21(107,24)       0.16( 81,24)       0.15( 86,24)       0.14( 63,24)       0.13( 38,24)
    1027.       5610.     600.       0.13( 63,24)       0.12( 92,24)       0.12(113,24)       0.10(107,24)       0.10( 62,24)
    1227.       -790.     344.       0.41(351,24)       0.34(350,24)       0.32(  1,24)       0.31(  4,24)       0.31(363,24)
    1227.       2410.     355.       0.45( 86,24)       0.41( 63,24)       0.41( 38,24)       0.39(121,24)       0.38(107,24)
    1227.       4810.     585.       0.14( 63,24)       0.13(113,24)       0.13( 92,24)       0.12( 32,24)       0.11( 62,24)
    1427.       -990.     337.       0.51( 27,24)       0.33( 26,24)       0.25(280,24)       0.24(267,24)       0.24(152,24)
    1427.       -790.     338.       0.56( 27,24)       0.42( 26,24)       0.30(267,24)       0.30(280,24)       0.28(346,24)
    1427.       2410.     346.       0.61( 63,24)       0.37( 45,24)       0.36(121,24)       0.35( 41,24)       0.34( 92,24)
    1427.       4810.     588.       0.19( 63,24)       0.15(  2,24)       0.13(104,24)       0.12( 62,24)       0.12( 41,24)
    1627.      -1190.     331.       0.36( 26,24)       0.35( 27,24)       0.26(130,24)       0.25(131,24)       0.24(280,24)
    1627.       -990.     332.       0.43( 27,24)       0.42( 26,24)       0.32(130,24)       0.29(131,24)       0.28(280,24)
    1627.       1610.     331.       0.95( 41,24)       0.74( 63,24)       0.60(128,24)       0.57(109,24)       0.56( 45,24)
    1627.       1810.     331.       0.86( 41,24)       0.72( 63,24)       0.53(128,24)       0.52( 64,24)       0.49(109,24)
    1627.       2010.     332.       0.87( 41,24)       0.71( 63,24)       0.50( 84,24)       0.46( 64,24)       0.46(109,24)
    1627.       2210.     333.       0.77( 41,24)       0.66( 63,24)       0.43(121,24)       0.43( 84,24)       0.41( 64,24)
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     1627.       2410.     337.           0.65( 41,24)          0.64( 63,24)          0.40(121,24)          0.39( 84,24)          0.37( 64,24)
     1627.       4810.     532.           0.25( 63,24)          0.19( 41,24)          0.14( 62,24)          0.13( 64,24)          0.11(  2,24)
     1627.       5010.     533.           0.22( 63,24)          0.18( 41,24)          0.12( 62,24)          0.11( 64,24)          0.10(  2,24)
     1827.      -1390.     325.           0.28(130,24)          0.27(131,24)          0.26( 26,24)          0.24(152,24)          0.22(266,24)
     1827.      -1190.     326.           0.32(142,24)          0.32(131,24)          0.31(130,24)          0.29( 26,24)          0.29(249,24)
     1827.       1610.     321.           0.97( 29,24)          0.36(109,24)          0.34( 42,24)          0.34( 62,24)          0.34( 63,24)
     1827.       5010.     486.           0.23( 63,24)          0.18( 41,24)          0.18( 84,24)          0.14( 81,24)          0.13( 62,24)
     2027.      -2390.     309.           0.18(124,24)          0.15(130,24)          0.14(143,24)          0.13(280,24)          0.13(152,24)
     2027.      -1390.     320.           0.32(142,24)          0.32(131,24)          0.28(130,24)          0.27(266,24)          0.27( 27,24)
     2027.       -390.     322.           0.80( 26,24)          0.62( 27,24)          0.54(  6,24)          0.53(260,24)          0.50(249,24)
     2027.        610.     317.           0.87(191,24)          0.85(176,24)          0.74(182,24)          0.74(214,24)          0.72(243,24)
     2027.       1410.     313.           0.62( 62,24)          0.57(115,24)          0.52( 17,24)          0.45( 29,24)          0.40( 37,24)
     2037.       1231.     311.           0.98(115,24)          0.70( 50,24)          0.65( 62,24)          0.50( 37,24)          0.50(114,24)
     2027.       1610.     312.           0.50( 29,24)          0.46( 62,24)          0.43(115,24)          0.33( 37,24)          0.31( 36,24)
     2027.       2610.     327.           0.35( 29,24)          0.34(109,24)          0.29( 41,24)          0.29(121,24)          0.23( 63,24)
     2027.       3610.     342.           0.27(114,24)          0.24( 41,24)          0.24( 80,24)          0.21( 81,24)          0.19( 87,24)
     2027.       4610.     440.           0.22(114,24)          0.21( 81,24)          0.18( 41,24)          0.16( 84,24)          0.15(128,24)
     2027.       5010.     469.           0.19( 81,24)          0.16( 84,24)          0.16( 41,24)          0.15( 63,24)          0.14(114,24)
     2027.       5610.     515.           0.16( 81,24)          0.15( 84,24)          0.13( 41,24)          0.13( 63,24)          0.11(100,24)
     2227.      -1590.     313.           0.29( 27,24)          0.27(142,24)          0.27(130,24)          0.27(131,24)          0.25(266,24)
     2227.        610.     311.           0.78(191,24)          0.69(236,24)          0.66(176,24)          0.66(243,24)          0.65(276,24)
     2227.        810.     310.           0.72(214,24)          0.72(215,24)          0.66(191,24)          0.64(213,24)          0.62(242,24)
     2227.       1210.     305.           0.60( 50,24)          0.59( 53,24)          0.55( 55,24)          0.54( 37,24)          0.48( 43,24)
     2227.       1410.     305.           0.57( 50,24)          0.41( 53,24)          0.37( 37,24)          0.33( 62,24)          0.31(237,24)
     2227.       5010.     438.           0.35(114,24)          0.17( 87,24)          0.17(120,24)          0.16( 81,24)          0.15( 41,24)
     2427.      -1590.     309.           0.32( 27,24)          0.30(130,24)          0.27(142,24)          0.26(266,24)          0.22(260,24)
     2427.        410.     307.           0.63(276,24)          0.61(236,24)          0.56(191,24)          0.56(281,24)          0.54(217,24)
     2427.        610.     304.           0.62(191,24)          0.56(236,24)          0.54(217,24)          0.52(243,24)          0.52(215,24)
     2427.        810.     305.           0.64(215,24)          0.56(214,24)          0.56(191,24)          0.52(213,24)          0.51(217,24)
     2427.       1210.     305.           0.55( 54,24)          0.48( 53,24)          0.47( 43,24)          0.46(215,24)          0.44( 55,24)
     2427.       5010.     426.           0.27(114,24)          0.12( 41,24)          0.12(137,24)          0.12( 85,24)          0.10(109,24)
     2627.      -1590.     304.           0.32(130,24)          0.24( 31,24)          0.24(266,24)          0.23( 25,24)          0.22(143,24)
     2627.      -1390.     304.           0.30(130,24)          0.27( 15,24)          0.27( 25,24)          0.26( 27,24)          0.25(266,24)
     2627.       -390.     305.           0.48(276,24)          0.42(170,24)          0.36(281,24)          0.35(233,24)          0.34(169,24)
1                                                                                                              POSTZ - PAGE NO.   7


                                                  HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                   HIGHEST FIVE CONCENTRATIONS
       METERS                                                            VALUE(DAY,ENDING HOUR)

      X              Y        ELEV.            HIGHEST               2ND HIGH              3RD HIGH              4TH HIGH              5TH HIGH
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     2627.       -190.     304.           0.56(276,24)          0.44(281,24)          0.37(241,24)          0.37(170,24)          0.36(236,24)
     2627.         10.     305.           0.60(276,24)          0.50(281,24)          0.46(236,24)          0.41(336,24)          0.41(  4,24)
     2627.        210.     305.           0.59(276,24)          0.54(236,24)          0.51(281,24)          0.45(191,24)          0.43(336,24)
     2627.        410.     305.           0.55(236,24)          0.53(276,24)          0.50(191,24)          0.48(278,24)          0.48(217,24)
     2627.        610.     305.           0.53(191,24)          0.50(236,24)          0.49(217,24)          0.48(282,24)          0.48(278,24)
     2627.        810.     305.           0.57(215,24)          0.48(217,24)          0.48(191,24)          0.45(214,24)          0.45(278,24)
     2627.       1010.     305.           0.60(215,24)          0.48( 54,24)          0.43(213,24)          0.42(214,24)          0.40(217,24)
     2627.       1210.     305.           0.56( 54,24)          0.48(215,24)          0.38( 43,24)          0.36(121,24)          0.35(213,24)
     2262.        433.     311.           0.74(276,24)          0.69(236,24)          0.66(281,24)          0.61(217,24)          0.59(191,24)
     2627.       5010.     380.           0.19(115,24)          0.18(109,24)          0.13( 92,24)          0.13(110,24)          0.11( 29,24)
     2827.      -1390.     301.           0.26(251,24)          0.26(170,24)          0.25(233,24)          0.25(264,24)          0.24( 25,24)
     2827.      -1190.     302.           0.38(  6,24)          0.32(170,24)          0.31(251,24)          0.29(130,24)          0.27(233,24)
     2827.       -990.     302.           0.35(170,24)          0.34(251,24)          0.33(130,24)          0.31(  6,24)          0.30( 16,24)
     2827.       -790.     302.           0.37(170,24)          0.34(251,24)          0.31(276,24)          0.30(233,24)          0.27(221,24)
     2827.       -590.     303.           0.39(170,24)          0.38(276,24)          0.32(251,24)          0.31(233,24)          0.31(169,24)
     2827.       -390.     303.           0.46(276,24)          0.36(170,24)          0.35(281,24)          0.32(241,24)          0.32(169,24)
     2827.       -190.     303.           0.52(276,24)          0.41(281,24)          0.35(241,24)          0.35(236,24)          0.33(336,24)
     2827.         10.     303.           0.53(276,24)          0.45(281,24)          0.43(236,24)          0.37(336,24)          0.36(241,24)
     2827.       5010.     358.           0.18( 92,24)          0.17(115,24)          0.17(109,24)          0.14( 93,24)          0.14(110,24)
     3027.      -2390.     297.           0.21(130,24)          0.18(266,24)          0.16(260,24)          0.15(233,24)          0.15( 27,24)
     3027.      -1390.     298.           0.30(170,24)          0.30(  6,24)          0.29(251,24)          0.25(130,24)          0.25(233,24)
     3027.       -390.     300.           0.44(276,24)          0.34(281,24)          0.31(142,24)          0.31(241,24)          0.28(313,24)
     3027.        610.     301.           0.45(278,24)          0.43(100,24)          0.42(236,24)          0.41(282,24)          0.41(217,24)
     3027.       1610.     302.           0.41( 54,24)          0.32( 43,24)          0.30( 53,24)          0.30( 14,24)          0.29( 55,24)
     3027.       2610.     303.           0.20( 62,24)          0.18( 50,24)          0.15(215,24)          0.14( 37,24)          0.13(237,24)
     3027.       3610.     305.           0.30( 62,24)          0.18(115,24)          0.17( 29,24)          0.14( 90,24)          0.13(116,24)
     3027.       4610.     333.           0.19(108,24)          0.15(351,24)          0.13(115,24)          0.12( 80,24)          0.10( 97,24)
     3027.       5010.     348.           0.19(115,24)          0.16( 92,24)          0.14(108,24)          0.14(351,24)          0.12( 80,24)
     3027.       5610.     372.           0.17(115,24)          0.17( 92,24)          0.14( 93,24)          0.13(109,24)          0.13(110,24)
     3227.       5010.     338.           0.17(108,24)          0.11(351,24)          0.11( 11,24)          0.10(115,24)          0.09( 80,24)
     3227.       5210.     345.           0.18(108,24)          0.15(351,24)          0.13(115,24)          0.10( 80,24)          0.10( 97,24)
     3227.       5610.     362.           0.19(115,24)          0.16( 92,24)          0.13(108,24)          0.13(351,24)          0.11(366,24)
     3227.       6010.     373.           0.18(115,24)          0.15( 92,24)          0.11( 93,24)          0.11(114,24)          0.10( 80,24)

 * - DENOTES PEAK VALUE
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                                    HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES                                     HIGHEST FIVE CONCENTRATIONS
       METERS                                              VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
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    -5973.     -2390.    798.       0.00(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -5973.     -1390.    793.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -5973.      -390.    781.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -5973.       610.    852.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -5973.      1610.    731.       0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -5973.      2610.    730.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -5973.      3610.    728.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -5973.      4610.    747.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -5973.      5610.    625.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4973.     -2390.    797.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4973.     -1390.    731.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4973.      -390.    652.       0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4973.      1610.    771.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4973.      2610.    792.       0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4973.      3610.    904.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4973.      4610.    858.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4973.      5610.    570.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4773.       410.    646.       0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4773.       610.    669.       0.21(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4773.       810.    666.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4773.      1010.    695.       0.10(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4773.      1210.    730.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4773.      1210.    730.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4573.       410.    633.       0.37(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4573.      1210.    722.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4573.      4810.    853.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4373.        10.    609.       0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4373.       210.    554.       0.05(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4373.       410.    583.       0.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4373.      1410.    694.       0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4373.      1610.    756.       0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4373.      1610.    756.       0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4373.      4810.    856.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4173.        10.    553.       0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4173.      1610.    787.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -4173.      4810.    828.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.     -2390.    767.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.     -1390.    732.       0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.      -390.    548.       0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.        10.    549.       0.21(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.       610.    722.       0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.      1610.    773.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.      2610.    875.       0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.      3610.    914.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.      4610.    954.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.      4810.    838.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3973.      5610.    686.       0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3773.        10.    549.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3773.      1610.    755.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
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                                    HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                     HIGHEST FIVE CONCENTRATIONS
       METERS                                              VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.        HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------
    -3773.      1810.    792.       0.05(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3773.      2010.    824.       0.05(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3773.      4810.    839.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3573.        10.    549.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3573.      2010.    848.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3573.      4810.    852.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3373.        10.    549.       0.10(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3373.      2010.    799.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -3373.      4810.    831.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
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   -3273.     2010.    787.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3273.     2210.    841.        0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3273.     2410.    862.        0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3173.       10.    567.        0.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3173.     2410.    841.        0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -3173.     4810.    806.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.    -2390.    661.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.    -1390.    613.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     -390.    609.        0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.       10.    601.        0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.      610.    579.        0.37(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     1610.    823.        0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     2410.    784.        0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     2610.    786.        0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     3610.    865.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     4610.    770.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     4810.    747.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2973.     5610.    642.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2773.       10.    609.        0.23(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2773.     2410.    731.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2773.     4810.    724.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2573.       10.    587.        0.35(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2573.     2410.    732.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2573.     4810.    713.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2373.       10.    574.        0.66(  4,24)*       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2373.     2410.    726.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2373.     4810.    700.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2173.       10.    564.        0.61(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2173.     2410.    675.        0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -2173.     4810.    675.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.    -2390.    487.        0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.    -1390.    522.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     -390.    487.        0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     -190.    526.        0.24(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.       10.    549.        0.34(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      210.    549.        0.42(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      410.    547.        0.61(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.      610.    479.        0.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     1610.    768.        0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     2410.    675.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
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                                          HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                            HIGHEST FIVE CONCENTRATIONS
       METERS                                                     VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.         HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
   -1973.     2610.    799.        0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     3610.    696.        0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     4610.    628.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     4810.    646.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1973.     5610.    597.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.     -790.    529.        0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.     -590.    497.        0.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.      210.    539.        0.25(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.      410.    491.        0.24(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.     2410.    668.        0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1773.     4810.    609.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.    -1190.    433.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.     -990.    459.        0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.     -790.    482.        0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.     -590.    487.        0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.     -390.    465.        0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.     -190.    475.        0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.       10.    505.        0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      210.    495.        0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.      410.    482.        0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.     2410.    648.        0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1573.     4810.    609.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1373.    -1190.    427.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1373.     2410.    609.        0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1373.     4810.    575.        0.02(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.    -1190.    423.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.     -990.    423.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.     -790.    424.        0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.     -590.    425.        0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
   -1173.      -390.     425.        0.06(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -1173.      2410.     610.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -1173.      4810.     555.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.     -2390.     407.        0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.     -1390.     411.        0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      -390.     421.        0.06(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      -190.     423.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.       610.     387.        0.27(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      1610.     594.        0.20(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      2410.     610.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      2610.     609.        0.06(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      3610.     609.        0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      4610.     551.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      4810.     549.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -973.      5610.     549.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      -190.     420.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      2010.     603.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      2210.     610.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      2410.     610.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -773.      4810.     549.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
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                                     HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
       METERS                                                   VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.         HIGHEST             2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------------
    -573.      -190.     417.        0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -573.      2010.     593.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -573.      2210.     609.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -573.      2410.     610.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -573.      4810.     572.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      -390.     410.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      -190.     418.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      2010.     564.        0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      2210.     594.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      2410.     599.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -373.      4810.     598.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -173.      -390.     402.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -173.      2410.     502.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    -173.      4810.     609.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.     -2390.     366.        0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.     -1390.     366.        0.05(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      -590.     384.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      -390.     392.        0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.       610.     293.        0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      1610.     502.        0.17(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      2410.     428.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      2610.     489.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      3610.     555.        0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      4610.     605.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      4810.     609.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
      27.      5610.     487.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     227.      -590.     373.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     227.      2410.     426.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     227.      4810.     608.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     427.      -790.     365.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     427.      -590.     366.        0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     427.      2410.     424.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     427.      4810.     575.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     627.      -790.     360.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     627.      2410.     408.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     627.      4810.     548.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     827.      -790.     355.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     827.      2410.     372.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     827.      4810.     563.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.     -2390.     339.        0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.     -1390.     346.        0.05(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      -790.     350.        0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      -390.     351.        0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.       610.     320.        0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      1610.     398.        0.21(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      2410.     363.        0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      2610.     365.        0.06(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      3610.     422.        0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
    1027.      4610.     541.        0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
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1                                                                                                     POSTZ - PAGE NO.  12


                                          HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
      METERS                                                VALUE(DAY,ENDING HOUR)

   X          Y        ELEV.        HIGHEST          2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
--------------------------------------------------------------------------------------------------------------------------------
     1027.      4810.     548.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1027.      5610.     600.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1227.      -790.     344.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1227.      2410.     355.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1227.      4810.     585.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1427.      -990.     337.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1427.      -790.     338.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1427.      2410.     346.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1427.      4810.     588.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1627.     -1190.     331.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1627.      -990.     332.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1627.      1610.     331.       0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1627.      1810.     331.       0.12(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1627.      2010.     332.       0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1627.      2210.     333.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1627.      2410.     337.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1627.      4810.     532.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1627.      5010.     533.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1827.     -1390.     325.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1827.     -1190.     326.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1827.      1610.     321.       0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     1827.      5010.     486.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.     -2390.     309.       0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.     -1390.     320.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.      -390.     322.       0.16(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.       610.     317.       0.31(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.      1410.     313.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2037.      1231.     311.       0.16(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.      1610.     312.       0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.      2610.     327.       0.05(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.      3610.     342.       0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.      4610.     440.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.      5010.     469.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2027.      5610.     515.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2227.     -1590.     313.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2227.       610.     311.       0.27(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2227.       810.     310.       0.22(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2227.      1210.     305.       0.12(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2227.      1410.     305.       0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2227.      5010.     438.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2427.     -1590.     309.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2427.       410.     307.       0.20(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2427.       610.     304.       0.19(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2427.       810.     305.       0.17(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2427.      1210.     305.       0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2427.      5010.     426.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.     -1590.     304.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.     -1390.     304.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.      -390.     305.       0.12(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
1                                                                                                     POSTZ - PAGE NO.  13


                                          HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
      METERS                                                VALUE(DAY,ENDING HOUR)

   X          Y        ELEV.        HIGHEST          2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
--------------------------------------------------------------------------------------------------------------------------------
     2627.      -190.     304.       0.13(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.        10.     305.       0.15(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.       210.     305.       0.16(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.       410.     305.       0.16(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.       610.     305.       0.15(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.       810.     305.       0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.      1010.     305.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2627.      1210.     305.       0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
     2262.       433.     311.       0.27(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2627.      5010.    380.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   2827.     -1390.    301.       0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   2827.     -1190.    302.       0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   2827.      -990.    302.       0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   2827.      -790.    302.       0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   2827.      -590.    303.       0.10(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   2827.      -390.    303.       0.11(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   2827.      -190.    303.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   2827.        10.    303.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   2827.      5010.    358.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.     -2390.    297.       0.05(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.     -1390.    298.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.      -390.    300.       0.10(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.       610.    301.       0.11(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.      1610.    302.       0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.      2610.    303.       0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.      3610.    305.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.      4610.    333.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.      5010.    348.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3027.      5610.    372.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3227.      5010.    338.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3227.      5210.    345.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3227.      5610.    362.       0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   3227.      6010.    373.       0.01(  4,24)      0.00(  0, 0)*     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)

* - DENOTES PEAK VALUE
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             POSTZ               (DATED 86224)
1                                                                                        POSTZ - PAGE NO.   1


                                    POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - SOX - 04/20/92 - MPV
                SHORTZ RUN TITLE:  ********************************************************************************

                ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                         0
                ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                   0
                ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                     0
                ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)          0
                ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                    0

           1-HOUR AVERAGE ANALYSIS:
                ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

           3-HOUR AVERAGE ANALYSIS:
                ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                       0
                ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

           8-HOUR AVERAGE ANALYSIS:
                ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

           24-HOUR AVERAGE ANALYSIS:
                ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
                ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

           ANNUAL AVERAGE ANALYSIS:
                ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
                ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

           USER-SPECIFIED AVERAGING TIME ANALYSIS
                ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                            0
                ISW(25) CALMS POLICY (1=YES,0=NO)                                                0


                JULIAN DAY FOR START OF ANALYSIS                                                 1
                YEAR FOR START OF ANALYSIS                                                      91
                JULIAN DAY FOR END OF ANALYSIS                                                   5
                YEAR FOR END OF ANALYSIS                                                        92
1                                                                                        POSTZ - PAGE NO.   2


                                          HIGH FIVE TABLE FOR     24 HOUR AVERAGES

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
      METERS                                                    VALUE(DAY,ENDING HOUR)

    X          Y        ELEV.         HIGHEST          2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
----------------------------------------------------------------------------------------------------------------------------
   -2973.     -290.    628.       1.02(133,24)      0.94(  3,24)      0.90(114,24)      0.82(143,24)      0.78(  1,24)
   -2973.     -190.    594.       1.54(114,24)      1.25(  1,24)      1.16(352,24)      0.86(115,24)      0.85(  1,24)
   -2973.      -90.    561.       1.75(114,24)      1.44(352,24)      1.11(365,24)      0.99(  1,24)      0.96(115,24)
   -2973.       10.    601.       1.31(365,24)      0.99(131,24)      0.96(101,24)      0.94(106,24)      0.94(114,24)
   -2873.     -290.    616.       1.34(  3,24)      1.08(350,24)      1.00( 74,24)      0.89(108,24)      0.83(131,24)
   -2873.     -190.    610.       1.25(  3,24)      1.23( 74,24)      1.13(  1,24)      1.07(114,24)      1.06( 52,24)
   -2873.      -90.    607.       2.01(114,24)      1.77(  1,24)      1.43(352,24)      1.41(  1,24)      1.07(115,24)
   -2873.       10.    533.       2.01(114,24)      1.71(365,24)      1.47(  1,24)      1.15(  1,24)      0.99( 29,24)
   -2773.     -290.    625.       1.40( 55,24)      1.39(351,24)      1.33(350,24)      0.91(  3,24)      0.89(353,24)
   -2773.     -190.    613.       1.98(  3,24)      1.76(351,24)      1.66(350,24)      1.13( 55,24)      1.13( 74,24)
   -2773.      -90.    610.       1.98(350,24)      1.92(  3,24)      1.58(  1,24)      1.57(114,24)      1.49(351,24)
   -2773.       10.    609.       2.96(  1,24)      2.84(114,24)      2.17(  3,24)      2.15(  1,24)      1.95(352,24)
   -2673.     -290.    649.       1.44(351,24)      1.23(106,24)      1.02(350,24)      0.77( 58,24)      0.75( 19,24)
   -2673.     -190.    631.       1.62(351,24)      1.56(350,24)      1.18(  3,24)      1.15(106,24)      1.10(353,24)
   -2673.      -90.    610.       2.30(350,24)      1.91(351,24)      1.81(353,24)      1.54(  4,24)      1.51(  1,24)
   -2673.      10.    564.       3.29(350,24)      2.69(351,24)      2.67( 55,24)      2.52(  3,24)      2.26(  1,24)
   -2573.    -290.    640.       1.54(  2,24)      1.50( 18,24)      1.08( 27,24)      0.98( 58,24)      0.93( 69,24)
   -2573.    -190.    622.       2.25( 18,24)      1.96(  2,24)      1.44( 27,24)      1.23( 69,24)      1.11(  4,24)
   -2573.     -90.    597.       2.97( 18,24)      2.53(  2,24)      2.20( 27,24)      1.79( 69,24)      1.76(351,24)
   -2573.      10.    587.       3.69( 27,24)      3.38(  2,24)      3.10( 18,24)      2.89(351,24)      2.82( 69,24)
   -2473.    -290.    640.       1.43( 17,24)      1.37( 56,24)      1.26( 69,24)      1.19( 20,24)      1.16( 18,24)
   -2473.    -190.    596.       1.82( 17,24)      1.74( 69,24)      1.66( 22,24)      1.65( 99,24)      1.49( 56,24)
   -2473.     -90.    582.       2.53(152,24)      2.40( 69,24)      2.16( 22,24)      2.00( 99,24)      1.80( 23,24)
   -2473.      10.    555.       3.56( 65,24)      3.40( 69,24)      3.14( 34,24)      2.90(  9,24)      2.76( 18,24)
   -2373.    -290.    646.       1.38( 23,24)      1.30( 65,24)      1.20( 60,24)      1.19( 22,24)      1.14( 34,24)
   -2373.    -190.    604.       1.89( 97,24)      1.77( 47,24)      1.67(113,24)      1.66( 60,24)      1.51( 23,24)
   -2373.     -90.    573.       2.60(131,24)      2.42( 47,24)      2.32(113,24)      2.14( 56,24)      2.14( 97,24)
   -2373.      10.    574.       5.17(130,24)      4.01( 15,24)      3.92( 22,24)      3.84(152,24)      3.57( 27,24)
   -2273.    -290.    625.       1.75(131,24)      1.50(143,24)      1.47(  9,24)      1.40( 97,24)      1.39(142,24)
   -2273.    -190.    610.       2.20(130,24)      2.09(131,24)      2.01(142,24)      1.90(143,24)      1.66( 65,24)
   -2273.     -90.    558.       3.20(143,24)      3.15(130,24)      2.88(  2,24)      2.75( 57,24)      2.45(142,24)
   -2273.      10.    503.       2.47( 27,24)      2.44( 19,24)      2.43( 48,24)      2.38( 16,24)      2.11( 35,24)
   -2173.    -290.    625.       1.68( 97,24)      1.62(142,24)      1.59(130,24)      1.46(143,24)      1.33(352,24)
   -2173.    -190.    610.       2.36(143,24)      2.31(130,24)      1.77( 31,24)      1.68(146,24)      1.62( 68,24)
   -2173.     -90.    564.       3.11(128,24)      2.52(130,24)      2.43(146,24)      2.36(143,24)      2.36( 15,24)
   -2173.      10.    564.       4.09(146,24)      3.78( 31,24)      3.63(  6,24)      3.58( 16,24)      3.41(130,24)
   -2073.    -290.    625.       1.97(130,24)      1.69(143,24)      1.34( 31,24)      1.29(146,24)      1.21( 15,24)
   -2073.    -190.    610.       2.73(146,24)      2.06(143,24)      1.82( 68,24)      1.70(130,24)      1.59( 20,24)
   -2073.     -90.    564.       2.56(146,24)      2.32( 16,24)      2.18(128,24)      2.14(148,24)      2.09( 20,24)
   -2073.      10.    518.       2.31(119,24)      2.25(  3,24)      1.84( 34,24)      1.80(120,24)      1.72(  6,24)
   -1973.    -290.    510.       1.19( 31,24)      1.18(143,24)      1.14(  2,24)      1.10(130,24)      1.10( 16,24)
   -1973.    -190.    526.       1.50( 16,24)      1.47( 20,24)      1.25(128,24)      1.20(  3,24)      1.18( 68,24)
   -1973.     -90.    548.       3.39(119,24)      2.31(132,24)      2.03(148,24)      1.98( 79,24)      1.53(120,24)
   -1973.      10.    549.       4.16(119,24)      2.31(120,24)      2.20(132,24)      1.63(123,24)      1.42(109,24)
   -1973.     110.    549.       2.83(142,24)      2.18(133,24)      2.07(141,24)      2.00( 34,24)      1.78( 23,24)
   -1973.     210.    549.       5.24(142,24)      4.07(131,24)      2.46(110,24)      2.39(133,24)      2.25( 32,24)
   -1973.     310.    548.       4.57(101,24)      4.49(110,24)      4.13(102,24)      3.48(100,24)      3.23(147,24)
   -1973.     410.    547.       6.63(145,24)*     6.25(100,24)*     5.71(144,24)      5.23(118,24)      4.60(111,24)
   -1873.      10.    548.       1.66(142,24)      1.52(109,24)      1.50( 34,24)      1.31(  4,24)      1.17(123,24)
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                                    HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
      METERS                                                 VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------
   -1873.     110.    549.       2.49(133,24)      2.41(142,24)      2.24(141,24)      2.03( 53,24)      1.82(143,24)
   -1873.     210.    546.       3.86(142,24)      2.65(131,24)      2.57(110,24)      2.16(104,24)      2.15(102,24)
   -1873.     310.    534.       3.74(110,24)      3.36(102,24)      3.35(100,24)      3.05(101,24)      2.84(117,24)
   -1873.     410.    512.       4.46(100,24)      3.65(118,24)      3.42(144,24)      3.08(145,24)      2.28(104,24)
   -1773.      10.    548.       1.44(142,24)      1.27( 70,24)      1.22( 34,24)      1.22(133,24)      1.18(128,24)
   -1773.     110.    549.       2.45(133,24)      2.40(142,24)      2.15(131,24)      1.80(141,24)      1.43( 53,24)
   -1773.     210.    539.       2.29(131,24)      2.25(142,24)      2.06( 99,24)      1.84(110,24)      1.64( 82,24)
   -1773.     310.    511.       2.27(100,24)      2.03(110,24)      1.80(103,24)      1.71(102,24)      1.62(117,24)
   -1773.     410.    491.       2.27(100,24)      1.80(118,24)      1.60(144,24)      1.18(104,24)      1.17(145,24)
   -1673.      10.    548.       1.70(133,24)      1.39(141,24)      1.25(143,24)      1.20( 70,24)      1.16(142,24)
   -1673.     110.    543.       2.43(142,24)      1.60(131,24)      1.26(110,24)      1.22(102,24)      1.20(104,24)
   -1673.     210.    520.       1.94(131,24)      1.60( 99,24)      1.17(142,24)      1.09(143,24)      1.08(101,24)
   -1673.     310.    496.       1.39(100,24)      1.22(103,24)      1.16(110,24)      0.91(105,24)      0.88(102,24)
   -1673.     410.    487.       1.86(100,24)      1.55(118,24)      1.29(144,24)      0.99(104,24)      0.88(145,24)
   -1573.      10.    505.       1.12(141,24)      1.01(142,24)      1.00(131,24)      0.85(133,24)      0.67( 53,24)
   -1573.     110.    504.       1.70(142,24)      0.90(131,24)      0.84(103,24)      0.80(102,24)      0.76( 32,24)
   -1573.     210.    495.       1.06(131,24)      0.74( 99,24)      0.63(101,24)      0.63(143,24)      0.55( 52,24)
   -1573.     310.    485.       0.96(100,24)      0.86(103,24)      0.78(110,24)      0.63(105,24)      0.57(102,24)
   -1573.     410.    482.       1.50(100,24)      1.30(118,24)      1.03(144,24)      0.82(104,24)      0.77(111,24)

* - DENOTES PEAK VALUE
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                                    HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
      METERS                                                 VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------
   -2973.    -290.    628.       0.11(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.    -190.    594.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.     -90.    561.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2973.        10.     601.       0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2873.      -290.     616.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2873.      -190.     610.       0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2873.       -90.     607.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2873.        10.     533.       0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2773.      -290.     625.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2773.      -190.     613.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2773.       -90.     610.       0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2773.        10.     609.       0.23(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2673.      -290.     649.       0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2673.      -190.     631.       0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2673.       -90.     610.       0.20(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2673.        10.     564.       0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2573.      -290.     640.       0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2573.      -190.     622.       0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2573.       -90.     597.       0.24(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2573.        10.     587.       0.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2473.      -290.     640.       0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2473.      -190.     596.       0.23(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2473.       -90.     582.       0.32(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2473.        10.     555.       0.49(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2373.      -290.     646.       0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2373.      -190.     604.       0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2373.       -90.     573.       0.38(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2373.        10.     574.       0.66(  4,24)*     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2273.      -290.     625.       0.22(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2273.      -190.     610.       0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2273.       -90.     558.       0.46(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2273.        10.     503.       0.38(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2173.      -290.     625.       0.23(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2173.      -190.     610.       0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2173.       -90.     564.       0.45(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2173.        10.     564.       0.61(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2073.      -290.     625.       0.23(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2073.      -190.     610.       0.30(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2073.       -90.     564.       0.39(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -2073.        10.     518.       0.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1973.      -290.     510.       0.20(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1973.      -190.     526.       0.24(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1973.       -90.     548.       0.32(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1973.        10.     549.       0.34(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1973.       110.     549.       0.35(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1973.       210.     549.       0.42(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1973.       310.     548.       0.50(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1973.       410.     547.       0.61(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1873.        10.     548.       0.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
1                                                                                                POSTZ - PAGE NO.    5


                                         HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
       METERS                                                  VALUE(DAY,ENDING HOUR)

    X             Y       ELEV.         HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------
   -1873.       110.     549.       0.28(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1873.       210.     546.       0.32(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1873.       310.     534.       0.38(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1873.       410.     512.       0.38(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1773.        10.     548.       0.21(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1773.       110.     549.       0.24(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1773.       210.     539.       0.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1773.       310.     511.       0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1773.       410.     491.       0.24(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1673.        10.     548.       0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1673.       110.     543.       0.21(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1673.       210.     520.       0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1673.       310.     496.       0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1673.       410.     487.       0.20(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1573.        10.     505.       0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1573.       110.     504.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1573.       210.     495.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1573.       310.     485.       0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1573.       410.     482.       0.18(  4,24)      0.00(  0, 0)*     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)

 * - DENOTES PEAK VALUE
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1              POSTZ                    (DATED 86224)
                                                                                       POSTZ - PAGE NO.   1


                                        POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - SOX - 04/20/92 - MPV
                SHORTZ RUN TITLE:  ********************************************************************************

                ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                          0
                ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                    0
                ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                      0
                ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)           0
                ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                     0

           1-HOUR AVERAGE ANALYSIS:
                ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         1
                ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                         0
                ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

           3-HOUR AVERAGE ANALYSIS:
                ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         1
                ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

           8-HOUR AVERAGE ANALYSIS:
                ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

           24-HOUR AVERAGE ANALYSIS:
                ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

           ANNUAL AVERAGE ANALYSIS:
                ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

           USER-SPECIFIED AVERAGING TIME ANALYSIS
                ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
                ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

                ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                             0
                ISW(25) CALMS POLICY (1=YES,0=NO)                                                 0


                JULIAN DAY FOR START OF ANALYSIS                                                  1
                YEAR FOR START OF ANALYSIS                                                       91
                JULIAN DAY FOR END OF ANALYSIS                                                    5
                YEAR FOR END OF ANALYSIS                                                         92
1
                                                                                       POSTZ - PAGE NO.   2


                                        HIGH FIVE TABLE FOR     1 HOUR AVERAGES

 RECEPTOR COORDINATES
      METERS                                               HIGHEST FIVE CONCENTRATIONS
                                                            VALUE(DAY,ENDING HOUR)

    X          Y       ELEV.        HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
---------------------------------------------------------------------------------------------------------------------------
  -5973.     -2390.    798.       4.13(120,19)       2.63(151, 9)       2.23(106, 8)       1.46(137, 8)       0.96( 79, 9)
  -5973.     -1390.    793.       3.35( 51, 3)       2.02(106, 7)       1.97(103,17)       1.78( 93,17)       1.51(149, 8)
  -5973.      -390.    781.      11.51(  7,22)       6.06( 68, 6)       4.73( 77, 7)       4.51(124, 8)       3.69( 75, 7)
  -5973.       610.    852.       5.80( 74, 6)       3.27( 92, 8)       2.53( 70, 9)       2.51( 82, 8)       2.30(111, 8)
  -5973.      1610.    731.       3.76( 74, 4)       3.32( 70, 7)       2.61(122,18)       2.49(134, 8)       2.12( 77,19)
  -5973.      2610.    730.       3.85( 74, 1)       3.53(135, 8)       3.28( 82, 8)       2.77(126, 8)       2.63( 74, 8)
  -5973.      3610.    728.       6.71( 98,19)       4.30( 92, 7)       4.00(139,18)       1.84(148, 9)       1.77(125, 8)
  -5973.      4610.    747.       6.64( 74, 4)       4.88(151, 8)       4.59( 70, 7)       3.61(140, 8)       3.43( 70, 8)
  -5973.      5610.    625.       6.06( 74, 2)       3.20( 84,23)       2.66(129,18)       2.61(140, 7)       2.58(147, 7)
  -4973.     -2390.    797.       2.95(106, 7)       2.07(137, 8)       2.00(114, 8)       1.96(108, 8)       1.65(117, 8)
  -4973.     -1390.    731.       8.38(120,19)       5.24( 74, 5)       4.52(106, 8)       3.95(151, 9)       2.96( 50, 4)
  -4973.      -390.    652.       9.82(  7,22)       7.83(120,19)       6.70(151, 9)       6.65(117, 7)       6.42( 61,22)
  -4973.      1610.    771.       7.14(100,19)       6.38(107,19)       4.42( 95, 8)       4.36( 77, 6)       3.94(111,18)
  -4973.      2610.    792.       5.49(112,19)       5.28(135, 8)       5.13(126, 8)       4.51( 88, 8)       3.63(136, 9)
  -4973.      3610.    904.       4.20(146,17)       4.11( 70, 8)       3.68( 96, 8)       3.34(122,18)       2.98(105,18)
  -4973.       4610.     858.         3.89(129,18)        3.22(120,18)        2.65( 94,19)        2.58(122,18)        2.25( 70, 8)
  -4973.       5610.     570.         3.38(145,18)        3.27(140, 7)        2.19(120,18)        2.18(132,18)        2.14(218, 8)
  -4773.        410.     646.        23.22( 95,19)       18.18(112,19)       16.09(135, 8)       15.91(126, 8)       14.34( 88, 8)
  -4773.        610.     669.        22.79( 74, 4)       20.67(151, 8)       17.74( 70, 7)       17.32( 44, 4)       17.31(100,18)
  -4773.        810.     666.        14.00( 77, 5)       12.39( 74, 6)       11.31(354, 6)       11.19( 44,23)       11.02( 74, 2)
  -4773.       1010.     695.        14.65( 74, 1)       13.29( 74, 6)       11.18( 45,24)       11.06(132,18)       10.95(136,18)
  -4773.       1210.     730.        11.14(100,19)        9.18(107,19)        7.38( 82, 7)        6.29(144,17)        6.24( 95, 8)
  -4773.       1210.     730.        11.14(100,19)        9.18(107,19)        7.38( 82, 7)        6.29(144,17)        6.24( 95, 8)
  -4573.        410.     633.        48.14( 98,19)       29.07(123,15)       27.48( 94, 8)       27.12(113, 9)       25.71( 72,21)
  -4573.       1210.     722.         9.32(  5,21)        9.20( 37,22)        7.09(148,17)        6.78(153, 8)        6.13(149,17)
  -4573.       4810.     853.         3.98(120,18)        2.58(145,18)        2.51(104, 8)        2.31(129,18)        2.30(109, 8)
  -4373.         10.     609.        39.62( 50, 4)       28.71( 61,22)       27.81(107, 5)       26.83(  1,16)       25.79(  1,17)
  -4373.        210.     554.        12.32( 77, 5)       11.55( 72,20)       10.68(107, 2)       10.07(354, 6)        9.07( 74, 6)
  -4373.        410.     583.        20.22( 93,19)       18.30( 25,16)       17.20( 74,17)       17.16( 39,14)       17.02( 66,19)
  -4373.       1410.     694.         6.14(104, 4)        5.44( 75,20)        5.15(150,17)        4.88(135,18)        4.56(107,18)
  -4373.       1610.     756.         4.67( 70, 9)        4.60(135,18)        4.49( 68,20)        4.06( 92, 8)        4.01(151, 8)
  -4373.       1610.     756.         4.67( 70, 9)        4.60(135,18)        4.49( 68,20)        4.06( 92, 8)        4.01(151, 8)
  -4373.       4810.     856.         4.01(145,18)        3.37(120,18)        2.73(104, 8)        2.70(109, 8)        2.42(132,18)
  -4173.         10.     553.        12.96(  7,22)       12.74(  1,11)       10.44( 27,17)        8.17(149, 1)        8.16(107, 4)
  -4173.       1610.     787.         5.93( 74, 4)        5.88(144,18)        5.76( 68,20)        5.72(104, 6)        5.33( 70, 9)
  -4173.       4810.     828.         5.09(145,18)        3.98(132,18)        2.78(109, 8)        2.62(104, 8)        2.59(150, 9)
  -3973.      -2390.     767.         3.43( 74, 5)        2.92( 73,24)        2.90(114, 8)        2.76( 23, 4)        2.73(115, 8)
  -3973.      -1390.     732.         9.23(117, 7)        5.84( 51, 3)        5.54( 92, 6)        5.40( 60, 2)        4.70( 22,24)
  -3973.       -390.     548.        20.50( 96,23)       10.87( 46, 3)        8.26(102, 2)        6.47(149, 1)        6.17(103,17)
  -3973.         10.     549.        13.77(149, 1)       12.65(  7,22)       12.01( 57, 3)       11.76( 48, 7)       11.40(  3, 4)
  -3973.        610.     722.        27.43( 28,20)       26.54(133, 1)       25.97( 37,23)       25.87( 51, 1)       25.77(366, 6)
  -3973.       1610.     773.         7.49( 68,20)        6.57(120,22)        6.10( 70, 9)        5.91( 92, 8)        5.85(100,22)
  -3973.       2610.     875.         9.18(139,18)        4.79(146,17)        4.07(148, 9)        4.05( 94, 8)        3.55(136,17)
  -3973.       3610.     914.         5.74(129,18)        5.14(122,18)        4.55(120,18)        4.34( 70, 8)        3.58(106,18)
  -3973.       4610.     954.         5.61(145,18)        4.63(132,18)        3.01(136,18)        3.00( 98,18)        2.81(104, 8)
  -3973.       4810.     838.         5.30(145,18)        5.21(132,18)        3.72(136,18)        3.71( 98,18)        2.94(150, 9)
  -3973.       5610.     686.         4.16( 74, 1)        3.73(100,19)        2.60( 82, 7)        2.54(132,18)        2.51( 98,18)
  -3773.         10.     549.        18.47(149, 1)       13.76(  7,22)        9.51( 34,20)        9.18( 68, 6)        8.55( 56,20)
  -3773.       1610.     755.         9.64( 68,20)        7.14(366, 6)        7.12( 92, 8)        6.99( 70, 9)        6.04( 82, 8)
1                                                                                                         POSTZ - PAGE NO.   3



                                              HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                             HIGHEST FIVE CONCENTRATIONS
       METERS                                                      VALUE(DAY,ENDING HOUR)

     X              Y        ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------------
  -3773.       1810.     792.        11.69( 68,20)        8.84( 82, 8)        7.71( 92, 8)        6.62( 70, 9)        6.53(135, 8)
  -3773.       2010.     824.         8.58(126, 8)        7.12( 82, 8)        6.82( 88, 8)        6.71(136, 9)        6.37( 95,19)
  -3773.       4810.     839.         5.50(132,18)        4.51(145,18)        4.39(136,18)        4.38( 98,18)        2.86(150, 9)
  -3573.         10.     549.        22.63(  7,22)       20.74(149, 1)       17.92(107, 3)       12.19( 68, 6)        9.08( 75, 7)
  -3573.       2010.     848.         8.63( 88, 8)        7.57(136, 9)        6.53( 95,19)        6.53( 82, 8)        5.76(122,17)
  -3573.       4810.     852.         4.65(132,18)        4.14(136,18)        4.13( 98,18)        3.66(100,19)        3.08(145,18)
  -3373.         10.     549.        19.74(149, 1)       14.27( 96,23)       10.07(  7,22)        9.99(103,17)        9.48( 50, 6)
  -3373.       2010.     799.        11.57(112,19)       11.36(135, 8)       11.18(126, 8)       10.11( 88, 8)        8.26(139,18)
  -3373.       4810.     831.         5.94(100,19)        3.79( 82, 7)        3.71(107,19)        3.17(147,17)        3.10(132,18)
  -3273.       2010.     787.        11.90(112,19)       11.40( 98,19)       11.29(126, 8)       11.14(135, 8)       10.55( 88, 8)
  -3273.       2210.     841.        19.06( 98,19)       14.28(139,18)        7.50( 96, 7)        6.82(146,17)        6.45(148, 9)
  -3273.       2410.     862.        10.74(146,17)       10.10(139,18)        8.69( 96, 8)        7.92( 70, 8)        6.44(105,18)
  -3173.         10.     567.        44.01( 96,23)       28.70( 46, 3)       28.31(102, 2)       15.10(103,17)       14.98( 93,17)
  -3173.       2410.     841.        15.49( 96, 7)       11.64(146,17)       10.59( 70, 8)        9.89( 96, 8)        8.83(139,18)
  -3173.       4810.     806.         6.76(100,19)        4.76(107,19)        4.74( 77, 6)        4.39( 95, 8)        3.84( 82, 7)
  -2973.      -2390.     661.         8.49(  3, 1)        8.21( 74, 5)        7.14( 74, 3)        3.68( 52, 4)        3.68( 69, 3)
  -2973.      -1390.     613.         9.72(352, 1)        6.14( 74, 3)        5.12( 68,21)        4.99(108, 5)        4.88( 85,20)
  -2973.       -390.     609.        15.00(107, 5)       14.16(117, 7)       12.90(120,19)       12.39( 74, 5)       11.82( 61,22)
  -2973.         10.     601.        30.49(120,19)       28.40( 96,23)       21.47(106, 8)       20.97(151, 9)       19.42(107, 5)
  -2973.        610.     579.        24.34( 64, 2)       21.89(107,20)       18.99(364, 6)       18.34( 96, 7)       18.04(105,18)
  -2973.       1610.     823.        16.80( 68,20)       14.46( 82, 8)       12.57( 92, 8)       11.52( 70, 9)       10.49( 74, 8)
  -2973.       2410.     784.        22.41( 74, 4)       21.51(151, 8)       18.49( 70, 7)       16.45(140, 8)       15.77( 70, 8)
  -2973.       2610.     786.        24.35( 74, 4)       19.24( 70, 7)       15.33(151, 8)       14.67(122,18)       13.70( 70, 8)
  -2973.       3610.     865.         8.99(132,18)        8.84(145,18)        6.84(136,18)        6.81( 98,18)        5.31(150, 9)
  -2973.       4610.     770.         7.10(100,19)        6.28( 77, 6)        5.33( 95, 8)        5.21(107,19)        3.86( 82, 7)
  -2973.       4810.     747.         6.66( 77, 6)        5.77(100,19)        5.21( 95, 8)        4.69(107,19)        3.12(144,17)
  -2973.       5610.     642.         5.03(  5,21)        4.02( 77, 6)        3.68(148,17)        2.84(149,17)        2.77( 95, 8)
  -2773.         10.     609.        26.78(  3, 1)       25.59( 74, 3)       24.49( 68,21)       23.76( 64, 3)       23.74( 96,23)
  -2773.       2410.     731.        27.99( 74, 4)       23.50( 70, 7)       21.30(151, 8)       18.24(122,18)       17.73( 70, 8)
  -2773.       4810.     724.         6.85( 77, 6)        5.30(  5,21)        4.86( 95, 8)        4.42(148,17)        3.42(149,17)
  -2573.         10.     587.        40.88( 69, 5)       40.22(  2,24)       39.85(  2,23)       39.27( 18, 1)       35.27( 17, 3)
  -2573.       2410.     732.        27.74( 74, 2)       25.47( 74, 4)       20.01( 70, 7)       16.09(122,18)       15.67(129,18)
  -2573.       4810.     713.         6.46(  5,21)        5.06( 77, 6)        4.81(148,17)        3.72(149,17)        3.52( 95, 8)
  -2373.         10.     574.        36.99(  1,21)       36.22( 33, 3)       35.21( 17, 2)       34.91( 30, 4)       34.55( 22,24)
  -2373.       2410.     726.        30.21( 74, 2)       21.95(120,18)       17.67(129,18)       16.78(133, 8)       14.06( 94,19)
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    -2373.      4810.    700.        5.89(  5,21)        4.45( 37,22)        4.31(153, 8)        4.16(152, 8)        3.72(148,17)
    -2173.        10.    564.       30.10( 52, 2)       28.83(117, 7)       27.84( 10,24)       27.80( 40, 3)       26.94(  2,21)
    -2173.      2410.    675.       18.88(120,18)       18.30( 74, 2)       18.15( 74, 1)       16.18(145,18)       15.48(132,18)
    -2173.      4810.    675.        4.77(152, 8)        4.74( 37,22)        4.52( 84,22)        4.01(153, 8)        3.94(104, 4)
    -1973.     -2390.    487.        9.10(363,22)        8.27(355, 4)        7.81(108, 5)        7.74(363,21)        7.53(351, 5)
    -1973.     -1390.    522.       17.78(351, 5)       12.85(  3, 5)        9.94(352, 2)        9.38(108, 5)        8.05(363,22)
    -1973.      -390.    487.       18.22(  3, 1)       17.73(117, 5)       17.68( 74, 3)       17.68( 74, 5)       17.45( 80,23)
    -1973.      -190.    526.       23.14(352, 1)       19.93(  3, 1)       19.30( 74, 3)       19.29(117, 5)       19.15( 74, 5)
    -1973.        10.    549.       23.12( 59, 2)       21.80(352, 1)       21.66(  3, 1)       21.17( 74, 3)       20.41(132,23)
    -1973.       210.    549.       36.79(117, 7)       27.45( 59,24)       26.57( 53, 1)       26.50( 51, 3)       26.08( 78, 5)
    -1973.       410.    547.       50.61( 60,22)       48.96(105,24)       48.53( 77,21)       48.30(127,23)       47.52(145,20)
    -1973.       610.    479.       53.10(149, 1)       49.17( 96,23)       42.85(120,19)       38.22(139, 2)       36.80( 85,22)
    -1973.      1610.    768.       45.09( 74, 4)       44.65(151, 8)       40.34(139,18)       39.61( 98,19)       38.13( 96, 7)
    -1973.      2410.    675.       21.92( 74, 1)       18.30(132,18)       17.75(145,18)       15.84(100,19)       15.06( 77, 6)
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                                                 HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                                HIGHEST FIVE CONCENTRATIONS
       METERS                                                         VALUE(DAY,ENDING HOUR)

      X           Y      ELEV.          HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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    -1973.      2610.    799.       16.06( 77, 6)       15.89(132,18)       14.73(100,19)       14.52(145,18)       14.07( 95, 8)
    -1973.      3610.    696.        9.99(  5,21)        7.92( 77, 6)        7.56(148,17)        7.26(153, 8)        7.13(152, 8)
    -1973.      4610.    628.        6.61(104, 4)        5.73(108, 4)        4.95( 84,22)        4.77(152, 8)        4.71( 75,20)
    -1973.      4810.    646.        6.55(104, 4)        4.67( 75,20)        4.50(125,18)        4.42( 84,22)        4.05(152, 8)
    -1973.      5610.    597.        5.73(104, 4)        4.97(108, 4)        4.83(107,24)        4.08( 75,20)        3.27(125,18)
    -1773.      -790.    529.       22.68(351, 5)       16.13( 74, 5)       15.78(  3, 5)       13.88(363,22)       12.83(108, 5)
    -1773.      -590.    497.       24.72(351, 5)       19.10(  3, 1)       18.80(355, 4)       18.57( 74, 5)       16.94(  3, 5)
    -1773.       210.    539.       26.60(  3, 1)       26.43(352, 1)       25.94( 74, 5)       25.78( 74, 3)       25.73(117, 5)
    -1773.       410.    491.       49.95( 93,20)       47.12(117, 7)       37.27(114,20)       35.83(355, 3)       34.79(107, 5)
    -1773.      2410.    668.       22.28( 74, 1)       19.50( 77, 6)       18.18(100,19)       17.88(132,18)       17.55( 95, 8)
    -1773.      4810.    609.        7.17(104, 4)        6.58(107,24)        6.21(108, 4)        5.10( 75,20)        4.23(125,18)
    -1573.     -1190.    433.       17.78(363,21)       15.98(351, 5)       15.43(355, 4)       14.85(364, 1)       13.76(363,22)
    -1573.      -990.    459.       24.36(351, 5)       19.21(363,21)       18.66(355, 4)       14.96(364, 1)       14.71(363,22)
    -1573.      -790.    482.       25.68(351, 5)       20.86(363,21)       18.51(355, 4)       16.39(  3, 5)       15.99(363,22)
    -1573.      -590.    487.       25.78(351, 5)       22.71(363,21)       19.98(  3, 5)       19.45(355, 4)       17.55(363,22)
    -1573.      -390.    465.       28.21(351, 5)       24.34(363,21)       22.83( 74, 5)       21.42(355, 4)       19.70(  3, 5)
    -1573.      -190.    475.       31.43(351, 5)       27.83(  3, 1)       26.33( 74, 3)       24.16(117, 5)       23.89(355, 4)
    -1573.        10.    505.       35.70(351, 5)       27.16(355, 4)       26.17(117, 5)       25.61(  3, 1)       25.30( 74, 3)
    -1573.       210.    495.       41.08(351, 5)       37.52(352, 1)       31.29(355, 4)       28.83(  3, 1)       28.57( 80,23)
    -1573.       410.    482.       54.50( 93,20)       48.18(351, 5)       38.41(117, 7)       36.18(355, 4)       35.90( 51, 3)
    -1573.      2410.    648.       22.94( 77, 6)       19.60( 95, 8)       19.12(100,19)       16.40(  5,21)       16.29(104, 4)
    -1573.      4810.    609.        7.20(107,24)        6.17(113,23)        5.63(107, 1)        4.80(104, 4)        4.66(135,18)
    -1373.     -1190.    427.       18.25(363,21)       17.51(364, 1)       14.20(363,22)       11.44(135, 4)       11.16( 85,20)
    -1373.      2410.    609.       24.74( 96, 6)       18.52(  5,21)       17.43(113,23)       17.40(104, 4)       17.26(107,24)
    -1373.      4810.    575.        7.17(113,23)        6.13( 93, 6)        5.68(144,18)        5.64(107, 1)        5.45(135,18)
    -1173.     -1190.    423.       19.67(364, 1)       17.52(363,21)       13.88( 94, 1)       12.12( 23, 5)       12.07(106, 5)
    -1173.      -990.    423.       23.38(363,21)       20.96(364, 1)       15.09( 94, 1)       13.77( 73,24)       13.37( 96,24)
    -1173.      -790.    424.       27.23(363,21)       22.09(364, 1)       16.52( 94, 1)       15.73( 73,24)       14.72( 96,24)
    -1173.      -590.    425.       27.63(363,21)       23.59(364, 1)       18.25( 94, 1)       17.91( 73,24)       16.40(363,22)
    -1173.      -390.    425.       27.12(363,21)       25.96(364, 1)       24.71(363,22)       20.39( 94, 1)       20.36( 73,24)
    -1173.      2410.    610.       22.49( 96, 6)       21.74(104, 4)       21.36(144,18)       19.02(107,24)       18.84(108, 4)
    -1173.      4810.    555.        8.50(123,23)        7.66(144,18)        6.71(104, 6)        6.10(113,23)        4.99(113,22)
     -973.     -2390.    407.       10.03( 94, 1)        9.20( 73,24)        7.82(364, 2)        7.63( 85,21)        7.57( 23, 4)
     -973.     -1390.    411.       14.22( 94, 1)       12.89( 73,24)       12.35(136, 6)       11.38( 77, 1)       11.01(364, 2)
     -973.      -390.    421.       29.62(364, 1)       22.02(135, 4)       21.08( 94, 1)       20.48( 92, 6)       20.48(124, 2)
     -973.      -190.    423.       38.43(364, 1)       27.75(363,21)       25.04(135, 4)       23.56( 94, 1)       23.37( 92, 6)
     -973.       610.    387.      130.58(351, 5)*     104.49(355, 4)*      68.56(352, 2)       65.96(364, 1)       64.45(  3, 5)
     -973.      1610.    594.       80.79(  3, 7)       60.08( 94, 6)       59.51(359, 1)       57.86( 77, 6)       54.72( 96, 6)
     -973.      2410.    610.       23.26(114, 3)       23.20(120,22)       23.12(144,18)       22.06(113,23)       21.09(114, 2)
     -973.      2610.    609.       20.37(120,22)       20.35(144,18)       19.89(114, 3)       18.58(113,23)       18.52(114, 2)
     -973.      3610.    609.       11.95(144,18)       10.61(104, 6)       10.39(100,22)        8.15(133,18)        7.88(113,22)
     -973.      4610.    551.        7.60(104, 6)        7.58(144,18)        6.19(123,23)        5.65(113,22)        5.59(133,18)
     -973.      4810.    549.        7.15(104, 6)        6.98(144,18)        5.46(123,23)        5.31(113,22)        5.22(133,18)
     -973.      5610.    549.        5.66(104, 6)        5.18(144,18)        4.20(113,22)        4.01(133,18)        3.47(123,23)
     -773.      -190.    420.       31.26( 73,24)       28.53(136, 6)       27.03( 77, 1)       25.62( 94, 5)       25.62( 97,23)
     -773.      2010.    603.       48.32(  3, 7)       32.53(359, 1)       31.68(100,22)       31.33(366, 6)       31.20( 70, 6)
     -773.      2210.    610.       28.31(  3, 7)       26.87(366, 6)       26.13(120,22)       26.13( 97, 5)       26.06(114, 4)
     -773.      2410.    610.       23.53(366, 6)       22.86( 97, 5)       22.79(114, 4)       22.61(120,22)       22.58(114, 3)
     -773.      4810.    549.        7.28(100,22)        5.48( 81,22)        5.03(107,22)        4.73( 84,20)        4.47(104, 6)
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                                                 HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)
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RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
      METERS                                                VALUE(DAY,ENDING HOUR)

   X           Y       ELEV.        HIGHEST           2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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    -573.      -190.    417.      25.42( 92, 6)      25.42(124, 2)      25.15( 87,22)      25.15(132,24)      25.15(153, 2)
    -573.      2010.    593.      44.43(  3, 7)      32.73(114, 4)      31.34(366, 6)      31.02(359, 1)      30.34(114, 3)
    -573.      2210.    609.      38.87(  3, 7)      30.81(114, 3)      26.90(359, 1)      25.71(366, 6)      25.24(114, 4)
    -573.      2410.    610.      33.85(  3, 7)      26.70(114, 3)      25.47(120,22)      23.15(114, 2)      22.49(366, 6)
    -573.      4810.    572.       8.24(120,22)       7.59(100,22)       7.49(114, 2)       6.87(114, 1)       6.11(134,18)
    -373.      -390.    410.      25.24( 98,21)      23.78(125, 1)      22.46( 92,24)      22.46(135, 6)      21.62(151, 5)
    -373.      -190.    418.      29.14( 92,24)      29.14(135, 6)      28.68(352, 3)      28.68(352, 4)      28.23(125, 1)
    -373.      2010.    564.      42.31(  3, 7)      29.81( 77, 4)      28.92( 97, 6)      28.92(146,18)      28.66(359, 1)
    -373.      2210.    594.      36.33(  3, 7)      26.65( 97, 5)      25.07(359, 1)      23.93(366, 6)      23.72( 97, 6)
    -373.      2410.    599.      32.39(  3, 7)      26.52(366, 6)      24.85( 97, 5)      24.33(114, 4)      22.31(359, 1)
    -373.      4810.    598.       9.01(120,22)       8.62(114, 3)       8.19(114, 2)       7.51(114, 1)       6.83(134,18)
    -173.      -390.    402.      23.73(124, 3)      23.07(128,21)      22.73( 87,22)      22.73(132,24)      21.74( 97, 4)
    -173.      2410.    502.      31.42(  3, 7)      22.08( 77, 4)      22.08(115, 2)      22.08(115, 4)      21.08(359, 1)
    -173.      4810.    609.       8.85(114, 3)       7.16(120,22)       6.50(114, 2)       5.96(114, 1)       5.65(114, 4)
      27.     -2390.    366.      10.00( 98,21)       8.24(153, 7)       7.67(125, 1)       7.61( 17, 1)       7.31( 97, 2)
      27.     -1390.    366.      14.36(125, 1)      13.97( 92,24)      13.95(135, 6)      13.49(352, 3)      13.49(352, 4)
      27.      -590.    384.      20.21(153, 2)      19.61( 87,22)      19.61(132,24)      18.50(124, 3)      17.76(117, 6)
      27.      -390.    392.      24.20(153, 2)      24.07(117, 6)      22.85( 87,22)      22.85(132,24)      21.31(146,20)
      27.       610.    293.      45.53( 70, 5)      45.52( 73,23)      45.51( 70, 4)      45.51(133,19)      45.51(151, 7)
      27.      1610.    502.      49.58( 70, 2)      49.53(144,19)      48.87( 63, 1)      48.69(106, 3)      47.11( 77,22)
      27.      2410.    428.      25.82(  3, 7)      21.90(359, 1)      21.49( 70, 6)      20.81(115, 3)      20.81(115,20)
      27.      2610.    489.      30.63(  3, 7)      19.46(114,21)      19.43(114, 5)      18.81(359, 1)      17.98( 77, 4)
      27.      3610.    555.      12.64( 97, 5)      12.63(366, 6)      11.71(  3, 7)      10.84( 77, 4)      10.56( 97, 6)
      27.      4610.    605.       9.14(366, 6)       9.03(114, 4)       8.28( 97, 5)       5.61(  3, 8)       4.90( 40, 5)
      27.      4810.    609.       8.34(114, 4)       8.19(366, 6)       6.80( 97, 5)       5.39(114, 3)       4.84(  3, 8)
      27.      5610.    487.       6.86(115, 6)       6.75(114, 3)       4.90( 92,20)       4.77(110, 4)       4.51(150,22)
     227.      -590.    373.      20.37(127, 3)      18.85(146,20)      18.66(140,24)      18.58(117, 6)      17.52( 39,23)
     227.      2410.    426.      21.17( 91,23)      19.71(115, 5)      19.65(125,19)      19.38(104,21)      19.29( 88, 2)
     227.      4810.    608.       8.91(366, 6)       8.58(114, 4)       8.43( 97, 5)       5.34(  3, 8)       5.31( 96, 6)
     427.      -790.    365.      18.39(127, 3)      15.88( 94, 4)      15.88( 95, 6)      15.88(147, 3)      15.55(140,24)
     427.      -590.    366.      19.37( 94, 4)      19.37( 95, 6)      19.37(147, 3)      19.24(128,24)      19.01(114,23)
     427.      2410.    424.      27.37(115, 5)      26.74( 98, 3)      26.74(134, 6)      23.67(134, 7)      21.11( 91,23)
     427.      4810.    575.       8.15( 97, 5)       7.69(366, 6)       6.31(113,24)       5.77(114, 4)       5.63( 97, 6)
     627.      -790.    360.      16.97( 94, 4)      16.97( 95, 6)      16.97(147, 3)      16.84(114,23)      16.35( 77, 3)
     627.      2410.    408.      25.47(132,19)      25.29( 98, 3)      25.28(134, 6)      24.23(115, 5)      23.65(148, 6)
     627.      4810.    548.       6.77( 97, 6)       6.77(146,18)       6.37( 77, 4)       6.34(109, 1)       6.24(113,24)
     827.      -790.    355.      24.98(137, 5)      22.71(138, 1)      20.99(126, 2)      20.81(149,20)      20.81(153, 5)
     827.      2410.    372.      24.22(106, 1)      24.22( 92, 1)      24.22(122,20)      23.69(132,19)      22.18(148,18)
     827.      4810.    563.      10.69(  3, 7)       7.90( 77, 4)       7.50(114, 5)       6.06( 74, 7)       6.06(122,19)
    1027.     -2390.    339.       9.08(153, 2)       8.55(117, 6)       8.44( 87,22)       8.33(132,24)       8.08(363,21)
    1027.     -1390.    346.      12.37( 94, 4)      12.36( 95, 6)      12.36(147, 3)      12.02(114,23)      11.83(128,24)
    1027.      -790.    350.      21.23( 98, 4)      21.20( 97,24)      21.20(153,22)      21.18(151,24)      21.17( 98, 6)
    1027.      -390.    351.      30.82(127, 2)      29.87( 97,24)      29.87( 98, 6)      29.87(151,24)      28.56(114, 6)
    1027.       610.    320.      33.64(149, 1)      31.74( 89,21)      31.52( 95, 1)      26.85(123,21)      26.25(134, 1)
    1027.      1610.    398.     105.70( 74, 4)      92.06( 70, 7)      90.79(151, 8)      85.15(123,22)      81.22(122,18)
    1027.      2410.    363.      22.80(148,18)      22.33( 87, 1)      21.16(134, 4)      20.53( 92, 1)      20.53(106, 1)
    1027.      2610.    365.      21.48(132,19)      20.47(106, 1)      20.47( 92, 1)      20.47(122,20)      19.53(118,24)
    1027.      3610.    422.       9.57(103,19)       9.44(104, 5)       8.43( 92, 2)       8.05(115,22)       8.05( 88,23)
    1027.      4610.    541.      13.00(  3, 7)       8.01( 70, 6)       7.95(114, 5)       7.48(359, 1)       7.08( 77, 4)
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                                        HIGH FIVE TABLE FOR      1 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                      HIGHEST FIVE CONCENTRATIONS
      METERS                                                VALUE(DAY,ENDING HOUR)

   X           Y       ELEV.        HIGHEST           2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
----------------------------------------------------------------------------------------------------------------------------
    1027.      4810.    548.      12.26(  3, 7)       7.90(114, 5)       7.69( 77, 4)       6.87( 70, 6)       6.38( 74, 7)
    1027.      5610.    600.       5.14( 97, 6)       5.14(146,18)       4.82( 77, 4)       4.47(113,24)       3.82(113,23)
    1227.      -790.    344.      18.53(114, 6)      18.53(127, 2)      17.72(298, 6)      17.56( 97,24)      17.53(151,24)
    1227.      2410.    355.      21.09(134, 4)      20.43( 63, 1)      20.09( 87, 1)      18.20(144,19)      17.83( 88,23)
    1227.      4810.    585.      11.61(  3, 7)       7.67( 70, 6)       7.38(359, 1)       6.35(114, 5)       6.11(133, 7)
    1427.      -990.    337.      16.93(127, 2)      16.49(114, 6)      16.32( 97,24)      16.29(151,24)      16.28( 98, 6)
    1427.      -790.    338.      18.51(127, 2)      18.38(114, 6)      18.20( 98, 5)      18.18( 97,24)      18.16(151,24)
    1427.      2410.    346.      20.02(144,19)      19.90( 63, 1)      18.92( 70, 2)      16.48(106, 3)      16.28(134, 4)
    1427.      4810.    588.       7.24(359, 1)       6.90( 70, 6)       6.66(  3, 7)       6.18( 92, 2)       5.74( 10, 3)
    1627.     -1190.    331.      15.40(127, 2)      15.20( 97,24)      15.14(151,24)      15.13( 98, 6)      14.45(114, 6)
    1627.      -990.    332.      16.39(114, 6)      16.27( 98, 5)      16.18(127, 2)      15.75(298, 6)      15.58( 97,24)
    1627.      1610.    331.      23.46( 70, 1)      23.03( 86,22)      23.03( 94, 6)      22.60(115,19)      18.70( 97,22)
    1627.      1810.    331.      26.41( 93, 5)      26.18(359, 3)      23.81( 93, 4)      21.14( 70, 1)      21.09(153, 3)
    1627.      2010.    332.      34.45(150,19)      30.67( 88, 3)      29.39( 97, 5)      25.04( 94,21)      24.07( 84, 1)
    1627.      2210.    333.      22.77( 96, 6)      20.66( 89,20)      20.60(114, 4)      20.33( 95, 5)      20.07(135,23)
    1627.      2410.    337.      18.88( 70, 2)     18.57(106, 3)     17.81(144,19)     17.19(150,22)     17.07( 88, 6)
    1627.      4810.    532.       6.64( 92, 2)      6.03(103,19)      6.02( 90, 4)      5.34(359, 1)      5.21(104, 5)
    1627.      5010.    533.       6.28(359, 1)      6.06( 92, 2)      5.55( 70, 6)      5.50( 90, 4)      5.05( 10, 3)
    1827.     -1390.    325.      14.11( 97,24)     14.04(151,24)     14.02( 98, 6)     13.88(127, 2)     13.23( 98, 4)
    1827.     -1190.    326.      14.87(114, 6)     14.63(127, 2)     14.51( 98, 5)     14.24(298, 6)     13.90( 97,24)
    1827.      1610.    321.      45.47( 96, 6)     41.48(150,22)     27.45(153,24)     26.84( 86,21)     21.12(104, 4)
    1827.      5010.    486.       6.16( 92, 2)      6.05(115, 3)      5.86(103,19)      5.60( 90, 4)      5.22(100,22)
    2027.     -2390.    309.       8.32(114,23)      8.02( 94, 4)      7.99( 95, 6)      7.99(147, 3)      7.53( 77, 3)
    2027.     -1390.    320.      13.52(114, 6)     13.44(127, 2)     12.91(298, 6)     12.83( 98, 5)     12.72( 97,24)
    2027.      -390.    322.      40.12( 70, 4)     37.27( 70, 5)     34.72( 83,24)     34.17( 73,23)     33.72(127, 1)
    2027.       610.    317.      51.90( 74, 1)     47.77( 73,24)     47.18( 96,22)     43.11( 96, 5)     41.54(356, 1)
    2027.      1410.    313.      36.77(115, 6)     36.46(114, 4)     35.49(366, 6)     34.36(115, 1)     34.13(114, 3)
    2037.      1231.    311.      70.71(114, 5)     68.85(115, 2)     68.85(115, 4)     68.84( 77, 4)     54.13( 74, 7)
    2027.      1610.    312.      23.09(120,22)     21.58( 70, 6)     20.99(114, 2)     19.50(123,23)     19.43(115,19)
    2027.      2610.    327.      15.98( 70, 2)     15.58(106, 3)     14.82(144,19)     13.84( 88, 6)     13.77( 77,22)
    2027.      3610.    342.      12.70( 98, 3)     12.33(134, 6)     11.31(115, 5)      9.47(148, 6)      8.55( 81, 5)
    2027.      4610.    440.       7.29(115,22)      5.47(120,22)      5.42(104, 5)      5.21(  2,20)      5.04(114, 2)
    2027.      5010.    469.       6.01(103,19)      5.97(104, 5)      4.82( 92, 2)      4.53(115,22)      4.39(120,22)
    2027.      5610.    515.       5.08(359, 1)      5.00( 92, 2)      4.59( 90, 4)      4.40(100,22)      4.30( 70, 6)
    2227.     -1590.    313.      12.43(127, 2)     12.25(114, 6)     11.82( 97,24)     11.75(151,24)     11.73( 98, 6)
    2227.       610.    311.      44.57(153, 2)     44.12( 87,22)     44.12(132,24)     41.59(124, 3)     40.49(117, 6)
    2227.       810.    310.      42.03(136, 5)     42.03(124, 5)     42.03(153,23)     38.71(123, 4)     34.34(359, 2)
    2227.      1210.    305.      51.90( 87, 1)     50.85(148,18)     50.63(134, 4)     45.89(122,20)     45.89( 92, 1)
    2227.      1410.    305.      27.85(115, 5)     23.82( 91,23)     23.72(134, 6)     23.72( 98, 3)     22.12(125,19)
    2227.      5010.    438.       6.48(115,22)      5.92(120,22)      5.58(104, 5)      5.50(114, 2)      5.15(114, 1)
    2427.     -1590.    309.      12.57( 98, 5)     12.27(114, 6)     11.67(298, 6)     11.55( 92, 4)     11.55(123, 2)
    2427.       410.    307.      32.35(123, 1)     32.35(138, 5)     32.23(123, 3)     32.23(134,19)     31.14(109, 4)
    2427.       610.    304.      38.20( 92, 5)     37.05( 93, 2)     36.03( 77, 2)     36.03( 94, 3)     34.36( 73,22)
    2427.       810.    305.      34.23(136, 5)     34.23(153,23)     34.23(124, 5)     30.46(123, 4)     27.18(359, 2)
    2427.      1210.    305.      44.52( 95, 5)     44.52( 89,20)     44.07(135,23)     38.81( 88, 6)     38.81( 77,22)
    2427.      5010.    426.       7.14(115,22)      5.74(114, 3)      4.66(  2,20)      3.96(  9,23)      3.93(104, 5)
    2627.     -1590.    304.      12.52( 92, 4)     12.52(123, 2)     12.52(150, 7)     12.17( 94, 3)     12.14( 77, 2)
    2627.     -1390.    304.      13.71( 92, 5)     13.68( 93, 2)     11.77( 95, 4)     11.75( 73,22)     11.75( 85, 1)
    2627.      -390.    305.      23.21(153, 2)     23.14( 87,22)     23.14(132,24)     22.34(124, 3)     20.93(117, 6)
1                                                                                                  POSTZ - PAGE NO.   7


                                              HIGH FIVE TABLE FOR     1 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                              HIGHEST FIVE CONCENTRATIONS
        METERS                                                       VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.          HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------------
    2627.      -190.    304.      24.65( 94, 4)     24.65( 95, 6)     24.65(147, 3)     23.27(114,23)     22.76(128,24)
    2627.        10.    305.      23.65( 77, 3)     23.22( 95, 4)     23.21(109, 4)     23.21( 85, 1)     23.21( 73,22)
    2627.       210.    305.      24.07(134, 1)     22.91(135,21)     22.90( 91,21)     22.43(149,19)     21.47( 93, 2)
    2627.       410.    305.      27.23( 92, 4)     27.23(123, 2)     27.23(150, 7)     26.58( 77, 2)     26.58( 94, 3)
    2627.       610.    305.      26.93(123, 4)     25.69(151, 6)     18.90(125,20)     17.88(149,24)     17.68(136, 5)
    2627.       810.    305.      29.67(136, 5)     29.67(153,23)     29.67(124, 5)     24.77(123, 4)     22.82(359, 2)
    2627.      1010.    305.      25.26(123,21)     24.37(359, 5)     23.73( 89,21)     23.62( 95, 1)     23.03( 99,21)
    2627.      1210.    305.      30.14( 88, 3)     29.21(150,19)     22.66( 93, 4)     20.18(123,21)     18.46(359, 3)
    2262.       433.    311.      63.35(117, 6)     60.80(153, 2)     56.81( 87,22)     56.81(132,24)     54.40( 77, 3)
    2627.      5010.    380.       6.47(115,22)      5.61(115, 6)      4.66(  2,20)      4.41(  9,23)      3.88( 92,20)
    2827.     -1390.    301.      13.47( 95, 4)     13.45( 73,22)     13.45( 85, 1)     12.55(109, 4)     12.44( 98,21)
    2827.     -1190.    302.      14.81( 92,24)     14.81(135, 6)     14.01(138, 5)     14.01(123, 1)     13.99(125, 1)
    2827.      -990.    302.      15.85( 97, 4)     15.85(135,22)     15.63(128,21)     15.62( 73,23)     15.38(123, 3)
    2827.      -790.    302.      22.44( 70, 4)     20.89( 70, 5)     17.84( 83,24)     17.53( 73,23)     16.07( 82, 6)
    2827.      -590.    303.      20.19(151, 7)     20.19(133,19)     17.67( 70, 3)     17.67( 73,21)     16.14(127, 3)
    2827.      -390.    303.      17.36(114,23)     17.28( 94, 4)     17.28( 95, 6)     17.28(147, 3)     16.52( 70, 3)
    2827.      -190.    303.      17.77( 77, 3)     16.64( 94, 3)     16.60( 77, 2)     16.60(150, 7)     16.60(123, 2)
    2827.        10.    303.      20.32(149,19)     20.18(140,23)     19.25(134, 1)     16.02(134,20)     15.85(135,21)
    2827.      5010.    358.       4.83( 93,22)      4.81( 88, 2)      4.75(104,21)      4.33(114, 4)      4.27(115, 6)
    3027.     -2390.    297.       9.24( 97,24)      9.07(151,24)      8.98( 98, 6)      8.88(127, 2)      8.38( 98, 4)
    3027.     -1390.    298.      12.42(109, 4)     11.33(128,21)     10.68(138, 5)     10.68(123, 1)     10.68( 97, 4)
    3027.      -390.    300.      14.28(134,20)     14.12( 70, 3)     14.12( 73,21)     13.78( 77, 3)     12.52(145,19)
    3027.       610.    301.      19.90(123, 4)     17.09(151, 6)     15.46(136, 5)     15.44(153,23)     15.42(124, 5)
    3027.      1610.    302.      17.15( 63, 1)     16.28(144,19)     13.88(134, 4)     13.56( 70, 2)     11.50( 87, 1)
    3027.      2610.    303.      12.83(149,18)     11.29( 84, 1)      9.92(135,23)      9.82(150,19)      8.62(104, 5)
    3027.      3610.    305.       9.63( 87, 1)      9.19(148,18)      8.73(134, 4)      7.08(120,20)      6.97(150,18)
    3027.      4610.    333.       8.30(115, 5)      7.89( 98, 3)      6.93(134, 6)      6.46(116, 3)      5.75( 59, 1)
    3027.      5010.    348.       6.02(115, 1)      5.77( 88, 2)      4.92(366, 6)      4.86( 91,23)      4.79(108,24)
    3027.      5610.    372.       6.74(115,22)      4.77( 93,22)      4.18(114, 4)      4.09(115, 1)      3.96(  2,20)
    3227.      5010.    338.       5.52(115, 5)      5.35( 91,23)      4.98(125,19)      4.88( 88, 2)      4.47(116, 3)
    3227.      5210.    345.       5.42( 88, 2)      5.00(115, 1)      4.54( 97, 5)      4.43(108,24)      4.43( 91,23)
    3227.      5610.    362.       6.08(115, 1)      5.39(115,22)      4.61(366, 6)      4.53( 92,21)      4.11( 97, 5)
    3227.      6010.    373.       6.52(115,22)      5.01(115, 1)      4.21(114, 4)      4.06( 93,22)      3.81(366, 6)

 * - DENOTES PEAK VALUE
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                                          HIGH FIVE TABLE FOR     3 HOUR AVERAGES

RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
     METERS                                                  VALUE(DAY,ENDING HOUR)

   X           Y        ELEV.         HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
----------------------------------------------------------------------------------------------------------------------
   -5973.      -2390.    798.        1.38(120,21)      0.88(151, 9)      0.78(106, 9)      0.52(137, 9)      0.45(103,18)
   -5973.      -1390.    793.        1.14(103,18)      1.12( 51, 3)      0.90(106, 9)      0.76(108, 9)      0.69( 29,24)
   -5973.       -390.    781.        3.84(  7,24)      2.54( 77, 9)      2.02( 68, 6)      1.53(124, 9)      1.23( 75, 9)
   -5973.        610.    852.        1.93( 74, 6)      1.55( 96,18)      1.31( 77,12)      1.25( 80, 9)      1.19( 70,12)
   -5973.       1610.    731.        2.50( 70, 9)      1.34( 74, 6)      1.22(122,18)      1.18(134, 9)      1.00( 70,12)
   -5973.       2610.    730.        1.58( 82, 9)      1.28( 74, 3)      1.25( 96,18)      1.22(135, 9)      1.16( 74, 9)
   -5973.       3610.    728.        2.24( 98,21)      1.76( 92, 9)      1.75(139,18)      1.10( 96, 9)      1.00( 88,18)
   -5973.       4610.    747.        2.69( 70, 9)      2.21( 74, 6)      1.89( 96, 9)      1.63(151, 9)      1.21(100,18)
   -5973.       5610.    625.        2.06( 74, 3)      1.44( 96,21)      1.42(140, 9)      1.25(129,18)      1.22(147, 9)
   -4973.      -2390.    797.        1.23(106, 9)      1.03(114, 9)      1.02(115, 9)      1.02(108, 9)      0.71(137, 9)
   -4973.      -1390.    731.        2.79(120,21)      1.75( 74, 6)      1.51(106, 9)      1.32(151, 9)      1.13( 50, 6)
   -4973.       -390.    652.        3.27(  7,24)      2.75(106, 9)      2.61(120,21)      2.23(151, 9)      2.22(117, 9)
   -4973.       1610.    771.        2.38(100,21)      2.13(107,21)      2.00(111,18)      1.99( 82, 9)      1.89(144,18)
   -4973.       2610.    792.        1.97(135, 9)      1.83(112,21)      1.71(126, 9)      1.65( 88, 9)      1.56( 82, 9)
   -4973.       3610.    904.        1.97(139,18)      1.92(146,18)      1.68( 96, 9)      1.66(100,18)      1.51(105,18)
   -4973.       4610.    858.        1.88(129,18)      1.36(120,18)      1.27( 96, 9)      1.09(112,18)      1.02( 89,18)
   -4973.       5610.    570.        1.58(132,18)      1.42(140, 9)      1.13(145,18)      1.09( 96,21)      1.05(120,18)
   -4773.        410.    646.        9.68( 77,18)      7.74( 95,21)      7.65( 96,18)      7.56( 74, 9)      6.69(148,15)
   -4773.        610.    669.       11.40( 96, 9)     10.96( 70, 9)      9.86(100,18)      9.25( 74, 6)      8.99(105,18)
   -4773.        810.    666.        6.12(132,18)      5.59(120,18)      5.45(112,18)      5.30( 44,24)      5.28(354, 6)
   -4773.       1010.    695.        5.29(136,18)      5.19(132,18)      4.88( 74, 3)      4.43( 74, 6)      3.96( 98,18)
   -4773.       1210.    730.        3.71(100,21)      3.16( 82, 9)      3.06(107,21)      3.02(111,18)      2.75( 77, 6)
   -4773.       1210.    730.        3.71(100,21)      3.16( 82, 9)      3.06(107,21)      3.02(111,18)      2.75( 77, 6)
   -4573.        410.    633.       16.05( 98,21)     14.76( 88,18)     14.69(123,15)     14.11( 94, 9)     11.55( 72,24)
   -4573.       1210.    722.        3.11(  5,21)      3.07( 37,24)      2.74(153, 9)      2.36(148,18)      2.30( 77, 6)
   -4573.       4810.    853.        1.75(120,18)      1.43(132,18)      1.13(134, 9)      1.07(129,18)      1.06(112,18)
   -4373.         10.    609.       22.65(  1,18)     13.56( 50, 6)     12.16(107, 6)     11.37( 61,24)      8.38( 43, 6)
   -4373.        210.    554.        4.99(354, 6)      4.63( 72,21)      4.58(107, 3)      4.11( 77, 6)      3.87( 77, 9)
   -4373.        410.    583.        9.85( 74,18)      9.08( 75,12)      8.78( 69,18)      7.31( 75,15)      7.10( 39,15)
   -4373.       1410.    694.        2.61(107,18)      2.56(125,18)      2.51( 73, 6)      2.26(135,18)      2.06(104, 6)
   -4373.       1610.    756.        3.33( 70, 9)      2.24(107,18)      2.09(135,18)      1.88( 96, 9)      1.83( 69, 9)
   -4373.       1610.    756.        3.33( 70, 9)      2.24(107,18)      2.09(135,18)      1.88( 96, 9)      1.83( 69, 9)
   -4373.       4810.    856.        1.97(132,18)      1.58(120,18)      1.34(145,18)      1.03(104, 9)      0.93(112,18)
   -4173.         10.    553.        5.28(  1,12)      4.32(  7,24)      3.75( 77, 9)      3.48( 27,18)      3.29(107, 3)
   -4173.       1610.    787.        4.29( 70, 9)      2.97(144,18)      2.13( 74, 6)      2.00( 69, 9)      1.92( 68,21)
   -4173.       4810.    828.        2.49(132,18)      1.70(145,18)      1.34(136,18)      1.33(120,18)      1.11( 98,18)
   -3973.      -2390.    767.        1.39(115, 9)      1.30(114, 9)      1.14( 74, 6)      0.97( 73,24)      0.92(107, 9)
   -3973.      -1390.    732.        3.08(117, 9)      1.95( 51, 3)      1.94(  1,21)      1.85( 92, 6)      1.83(106, 9)
   -3973.       -390.    548.        6.83( 96,24)      3.62( 46, 3)      2.81(103,18)      2.75(102, 3)      2.33( 26,12)
   -3973.         10.    549.        9.30( 12, 6)      7.85( 16, 3)      6.37( 20, 3)      6.04(  2, 6)      5.64( 35, 6)
   -3973.        610.    722.       11.19(  3, 9)     10.84( 28,21)     10.49(108,18)      9.17( 41, 6)      8.87( 37,24)
   -3973.       1610.    773.        3.23( 70, 9)      2.84( 84,21)      2.78(134,18)      2.50( 68,21)      2.46(121,18)
   -3973.       2610.    875.        4.14(139,18)      2.61(146,18)      2.37( 88,18)      2.09(148,15)      2.05( 94, 9)
   -3973.       3610.    914.        2.99(129,18)      2.00(120,18)      1.87(122,18)      1.82(139,18)      1.81( 89,18)
   -3973.       4610.    954.        2.80(132,18)      1.87(145,18)      1.58(136,18)      1.41(120,18)      1.29( 98,18)
   -3973.       4810.    838.        2.76(132,18)      1.80(136,18)      1.77(145,18)      1.50( 98,18)      1.07(120,18)
   -3973.       5610.    686.        2.10( 74, 3)      1.26(132,18)      1.24(100,21)      1.20(133,18)      1.13( 98,18)
   -3773.         10.    549.        6.16(149, 3)      5.72( 34,21)      4.59(  7,24)      4.17( 18, 6)      3.50( 23,24)
   -3773.       1610.    755.        3.21( 68,21)      2.49( 82, 9)      2.46( 70, 9)      2.45( 96,18)      2.41( 92, 9)
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                                          HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                        HIGHEST FIVE CONCENTRATIONS
     METERS                                                  VALUE(DAY,ENDING HOUR)

   X           Y        ELEV.         HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
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   -3773.       1810.    792.        3.94( 68,21)      3.86( 82, 9)      3.27( 96,18)      2.67( 74, 9)      2.63( 92, 9)
   -3773.       2010.    824.        3.79( 82, 9)      3.21(126, 9)      2.95( 96,18)      2.82( 77,18)      2.80( 88, 9)
   -3773.       4810.    839.        2.64(132,18)      1.99(136,18)      1.73( 98,18)      1.50(145,18)      1.19(133,18)
   -3573.         10.    549.        7.54(  7,24)      6.91(149, 3)      6.84(107, 3)      4.06( 68, 6)      3.03( 75, 9)
   -3573.       2010.    848.        3.73( 82, 9)      3.34( 88, 9)      3.12(148,15)      2.97( 77,18)      2.91( 96,18)
   -3573.       4810.    852.        2.14(132,18)      1.81(136,18)      1.71( 98,18)      1.39(133,18)      1.22(100,21)
   -3373.         10.    549.        6.58(149, 3)      4.76( 96,24)      3.89(103,18)      3.36(  7,24)      3.29(146,15)
   -3373.       2010.    799.        4.29( 82, 9)      4.04(126, 9)      3.86(112,21)      3.82(135, 9)      3.76( 88, 9)
   -3373.       4810.    831.        1.98(100,21)      1.50( 98,18)      1.48(132,18)      1.41(133,18)      1.32(136,18)
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    -3273.      2010.    787.        4.26(139,18)       4.06(148,15)       3.97(112,21)       3.92(126, 9)       3.87( 88, 9)
    -3273.      2210.    841.        6.38(139,18)       6.35( 98,21)       5.10(146,18)       4.54( 96, 9)       3.85( 88,18)
    -3273.      2410.    862.        6.00(146,18)       5.91(139,18)       3.89( 96, 9)       3.61(100,18)       3.31(122,18)
    -3173.        10.    567.       14.67( 96,24)       9.57( 46, 3)       9.44(102, 3)       6.48(103,18)       5.12( 93,18)
    -3173.      2410.    841.        9.72( 96, 9)       6.51(146,18)       5.98(139,18)       4.39(100,18)       3.98(122,18)
    -3173.      4810.    806.        2.25(100,21)       1.59(107,21)       1.58( 77, 6)       1.48( 95, 9)       1.32(123,18)
    -2973.     -2390.    661.        3.10(  3, 3)       2.74( 74, 6)       2.38( 74, 3)       1.66(106, 6)       1.51(  3, 6)
    -2973.     -1390.    613.        3.41(352, 3)       2.46(  3, 3)       2.16(115, 9)       2.11(114, 9)       2.07( 52, 3)
    -2973.      -390.    609.        6.30( 61,24)       5.86(107, 6)       4.74(117, 9)       4.60( 74, 6)       4.59(362, 3)
    -2973.        10.    601.       10.16(120,21)       9.99(106, 9)       9.47( 96,24)       7.85(107, 6)       6.99(151, 9)
    -2973.       610.    579.       12.58( 96, 9)      10.41(100,18)       9.93( 77, 9)       9.92( 88,18)       9.77( 71,21)
    -2973.      1610.    823.        6.57( 82, 9)       5.61( 96,18)       5.60( 68,21)       4.59( 74, 9)       4.58( 77,18)
    -2973.      2410.    784.       11.65( 70, 9)      10.33( 96, 9)       7.47( 74, 6)       7.17(151, 9)       5.96(139,18)
    -2973.      2610.    786.       11.13( 70, 9)       8.12( 74, 6)       5.98(134, 9)       5.87( 96, 9)       5.36(122,18)
    -2973.      3610.    865.        4.87(132,18)       3.39(136,18)       2.95(145,18)       2.80( 98,18)       1.89(133,18)
    -2973.      4610.    770.        2.37(100,21)       2.09( 77, 6)       1.80( 95, 9)       1.74(107,21)       1.56(123,18)
    -2973.      4810.    747.        2.22( 77, 6)       1.92(100,21)       1.75( 95, 9)       1.56(107,21)       1.48(123,18)
    -2973.      5610.    642.        1.68(  5,21)       1.34( 77, 6)       1.27(148,18)       1.02( 74, 3)       0.97(149,18)
    -2773.        10.    609.       13.69(  1,18)      12.69(108, 9)       9.70(355, 9)       9.41(  3, 3)       8.53( 74, 3)
    -2773.      2410.    731.       13.96( 70, 9)       9.33( 74, 6)       8.60( 96, 9)       7.10(151, 9)       7.04(134, 9)
    -2773.      4810.    724.        2.28( 77, 6)       1.77(  5,21)       1.63( 95, 9)       1.62(148,18)       1.37(123,18)
    -2573.        10.    587.       26.69(  2,24)      22.38( 18, 3)      22.12( 69, 6)      15.31( 51, 6)      13.64( 27,18)
    -2573.      2410.    732.       11.55( 70, 9)       9.40( 74, 3)       8.49( 74, 6)       8.26(129,18)       8.13(134, 9)
    -2573.      4810.    713.        2.15(  5,21)       1.72(148,18)       1.69( 77, 6)       1.34( 74, 3)       1.32(149,18)
    -2373.        10.    574.       21.03(  3, 3)      17.67(152,21)      17.28(153, 3)      16.49( 61,24)      16.46( 22,24)
    -2373.      2410.    726.       14.10( 74, 3)       9.18(120,18)       8.32(129,18)       7.73(132,18)       7.64( 44,24)
    -2373.      4810.    700.        1.96(  5,21)       1.58( 74, 3)       1.54(152, 9)       1.49( 37,24)       1.44(153, 9)
    -2173.        10.    564.       20.79(146,21)      15.48( 52, 3)      15.20( 68, 3)      12.42(153, 6)      11.49( 12,24)
    -2173.      2410.    675.       12.15( 74, 3)       9.93(132,18)       8.41(120,18)       6.08(136,18)       5.72( 98,18)
    -2173.      4810.    675.        1.75( 84,24)       1.73( 45,24)       1.72(152, 9)       1.68( 74, 3)       1.64( 37,24)
    -1973.     -2390.    487.        3.51(363,24)       3.07(355, 6)       2.80(351, 6)       2.66(117, 9)       2.61(363,21)
    -1973.     -1390.    522.        6.58(351, 6)       4.89(  3, 6)       3.84(352, 3)       3.59(363,24)       3.42(353,24)
    -1973.      -390.    487.        7.31(  3, 3)       7.21(  3, 6)       6.53(352, 3)       6.32( 74, 6)       6.22(117, 6)
    -1973.      -190.    526.        8.44(352, 3)       7.76(  3, 3)       7.72( 74, 6)       7.18( 68, 3)       6.44(117, 6)
    -1973.        10.    549.       19.44(119,21)      13.03(132,24)      12.69(123, 3)       9.41(108, 9)       8.76( 92, 6)
    -1973.       210.    549.       16.58( 51, 3)      15.43(108,21)      14.41(133, 6)      13.58(142,21)      13.54(102,24)
    -1973.       410.    547.       24.30( 85,24)      23.51(100, 6)      21.77(145, 6)      21.27( 89,24)      21.20(144, 6)
    -1973.       610.    479.       17.70(149, 3)      16.39( 96,24)      14.29(120,21)      12.74(139, 3)      12.27( 85,24)
    -1973.      1610.    768.       26.69( 70, 9)      26.68( 96, 9)      24.55(139,18)      19.25(146,18)      18.69(122,18)
    -1973.      2410.    675.       10.94(132,18)       8.82( 74, 3)       7.57( 98,18)       7.09(136,18)       5.92(194,18)
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                                              HIGH FIVE TABLE FOR    3 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
       METERS                                                    VALUE(DAY,ENDING HOUR)

     X            Y       ELEV.         HIGHEST            2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
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    -1973.      2610.    799.        8.18(132,18)       6.77( 98,18)       6.28(136,18)       5.35( 77, 6)       4.98( 95, 9)
    -1973.      3610.    696.        3.33(  5,21)       2.86(148,18)       2.71(152, 9)       2.64( 77, 6)       2.53( 84,24)
    -1973.      4610.    628.        2.20(104, 6)       1.92( 84,24)       1.91(108, 6)       1.86( 74, 3)       1.86( 45,24)
    -1973.      4810.    646.        2.18(104, 6)       1.71( 75,21)       1.61( 45,24)       1.58( 84,24)       1.50(125,18)
    -1973.      5610.    597.        1.91(104, 6)       1.86(107,24)       1.66(108, 6)       1.50( 75,21)       1.16(150,18)
    -1773.      -790.    529.        8.25(351, 6)       6.39(  3, 6)       5.77(363,24)       5.77(353,24)       5.38( 74, 6)
    -1773.      -590.    497.        9.10(351, 6)       7.30(  3, 6)       6.53(  3, 3)       6.27(355, 6)       6.20( 74, 6)
    -1773.       210.    539.       12.36(108, 9)      11.60( 99,24)      11.46( 82,24)      10.68( 29,24)      10.58(352, 3)
    -1773.       410.    491.       17.70( 93,21)      16.98(106, 9)      16.87(108, 9)      15.72(117, 9)      12.51(362, 3)
    -1773.      2410.    668.        9.11(132,18)       7.93( 98,18)       7.70( 74, 3)       7.08(136,18)       6.50( 77, 6)
    -1773.      4810.    609.        2.39(104, 6)       2.20(107,24)       2.07(108, 6)       1.73( 75,21)       1.64(150,18)
    -1573.     -1190.    433.        6.18(106, 6)       6.03(363,21)       5.62(351, 6)       5.21( 96,24)       5.14(355, 6)
    -1573.      -990.    459.        8.50(351, 6)       6.48(363,21)       6.47(106, 6)       6.22(355, 6)       6.19( 96,24)
    -1573.      -790.    482.        9.08(351, 6)       6.99(363,21)       6.62(106, 6)       6.17(355, 6)       6.16(363,24)
    -1573.      -590.    487.        9.30(351, 6)       7.71(  3, 6)       7.58(363,21)       6.89(363,24)       6.68(353,24)
    -1573.      -390.    465.       10.38(351, 6)       8.34(353,24)       8.25(  3, 6)       8.11(363,21)       7.98( 74, 6)
    -1573.      -190.    475.       11.77(351, 6)      10.09(  3, 3)       9.78(  3, 6)       9.35(353,24)       8.98( 74, 6)
    -1573.        10.    505.       13.52(351, 6)      11.64(  3, 6)      10.76( 74, 6)      10.55(353,24)      10.07(352, 3)
    -1573.       210.    495.       20.26(352, 3)      15.58(351, 6)      13.95(114, 9)      13.47(  3, 6)      11.61(353,24)
    -1573.       410.    482.       20.21(352, 3)      19.69( 93,21)      18.19(351, 6)      17.34(117, 9)      17.29(108, 9)
    -1573.      2410.    648.        8.41( 77, 6)       6.86( 95, 9)       6.56(123,18)       6.37(100,21)       5.95( 45,24)
    -1573.      4810.    609.        2.40(107,24)       2.21(113,24)       1.88(107, 3)       1.81(104, 6)       1.66(107,18)
    -1373.     -1190.    427.        7.76(364, 3)       7.13( 69, 6)       6.61(106, 6)       6.26( 85,21)       6.17(363,21)
    -1373.      2410.    609.        9.10(104, 6)       8.27(113,24)       8.25( 96, 6)       7.06( 77, 6)       6.64(144,18)
    -1373.      4810.    575.        3.43(113,24)       2.26(144,18)       2.04( 93, 6)       1.88(107, 3)       1.82(135,18)
    -1173.     -1190.    423.       10.23(364, 3)       7.86( 69, 6)       7.51(106, 6)       7.41( 23, 6)       7.27(363,21)
    -1173.      -990.    423.       11.01(364, 3)       9.58(363,21)       8.47( 69, 6)       8.25(106, 6)       8.22( 23, 6)
    -1173.      -790.    424.       11.80(364, 3)      11.33(363,21)       9.16( 69, 6)       9.01( 23, 6)       8.71(106, 6)
    -1173.      -590.    425.       12.79(364, 3)      12.06(363,21)      10.01( 69, 6)       9.82( 23, 6)       9.50( 85,21)
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   -1173.      -390.    425.      14.18(364, 3)       12.62(363,21)       11.42( 85,21)       11.12( 69, 6)       10.88( 23, 6)
   -1173.      2410.    610.      13.20(104, 6)       10.61(107,24)       10.36(113,24)        7.51(144,18)        7.50( 96, 6)
   -1173.      4810.    555.       3.70(113,24)        3.19(123,24)        2.99(144,18)        2.51(104, 6)        2.19(133,18)
    -973.     -2390.    407.       4.52( 94, 3)        3.31(  2,24)        3.20( 47, 3)        3.15(364, 3)        3.07( 73,24)
    -973.     -1390.    411.       7.91( 94, 3)        5.52(364, 3)        5.45( 47, 3)        5.02( 69, 6)        4.80(124, 3)
    -973.      -390.    421.      15.55(364, 3)       13.65(124, 3)       12.82( 69, 6)       12.71( 94, 3)       10.75( 23, 6)
    -973.      -190.    423.      19.21(364, 3)       15.55(124, 3)       15.29( 69, 6)       14.32( 94, 3)       14.07(363,21)
    -973.       610.    387.      51.50(351, 6)       50.90(124, 3)*      47.94(355, 6)       46.76(146,24)       45.15(135, 6)
    -973.      1610.    594.      47.70(  3, 9)       47.44(104, 6)       45.25(114, 3)       37.36( 77, 6)       35.87(113,24)
    -973.      2410.    610.      21.23(114, 3)       11.88(113,24)        9.68(107,24)        9.07(104, 6)        8.98( 84,21)
    -973.      2610.    609.      18.46(114, 3)       10.20(113,24)        7.77( 84,21)        7.05(144,18)        7.03(107,24)
    -973.      3610.    609.       5.00(113,24)        4.30(144,18)        3.87(104, 6)        3.85( 84,21)        3.68(114, 3)
    -973.      4610.    551.       3.02(144,18)        2.96(104, 6)        2.77(113,24)        2.59(133,18)        2.45(123,24)
    -973.      4810.    549.       2.83(144,18)        2.70(104, 6)        2.43(113,24)        2.36(133,18)        2.20(123,24)
    -973.      5610.    549.       2.10(104, 6)        2.06(144,18)        1.75(113,24)        1.56(133,18)        1.49(123,24)
    -773.      -190.    420.      19.31(124, 3)       18.67( 97, 3)       14.51(113,21)       14.14( 94, 3)       11.84(138, 3)
    -773.      2010.    603.      28.10(114, 3)       27.14(  3, 9)       20.48(114, 6)       19.80( 97, 6)       15.65(113,24)
    -773.      2210.    610.      23.86(114, 3)       18.19(  3, 9)       16.75( 97, 6)       16.08(114, 6)       12.63(113,24)
    -773.      2410.    610.      20.66(114, 3)       12.48( 97, 6)       10.38(113,24)        9.55( 84,21)        9.46( 41, 6)
    -773.      4810.    549.       2.76(114, 3)        2.67( 84,21)        2.43(100,24)        2.01( 81,24)        1.99(107,24)
1                                                                                                        POSTZ - PAGE NO.  11


                                             HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                               HIGHEST FIVE CONCENTRATIONS
       METERS                                                         VALUE(DAY,ENDING HOUR)

     X             Y        ELEV.         HIGHEST             2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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    -573.      -190.    417.      23.58(124, 3)       15.63(136,24)       15.43(113,21)       15.25(135,24)       14.34(117, 6)
    -573.      2010.    593.      26.31(  3, 9)       22.26(114, 3)       20.43(114, 6)       18.78( 97, 6)       12.91( 63, 6)
    -573.      2210.    609.      24.86(114, 3)       22.14(  3, 9)       16.73(114, 6)       16.01( 97, 6)       11.15( 63, 6)
    -573.      2410.    610.      23.69(114, 3)       18.79(  3, 9)       14.58(114, 6)       14.01( 97, 6)        9.09( 41, 6)
    -573.      4810.    572.       6.76(114, 3)        2.97( 84,21)        2.75(120,24)        2.53(100,24)        2.04(134,18)
    -373.      -390.    410.      14.49(136,24)       13.95(117, 6)       12.94(135, 6)       12.86(135,24)       12.86( 97, 3)
    -373.      -190.    418.      15.85(135, 6)       15.62(135,24)       15.26(136,24)       15.06(138, 3)       14.60(117, 6)
    -373.      2010.    564.      19.84(  3, 9)       14.38( 97, 6)       12.53( 63, 6)       12.13( 62, 6)       11.58(146,18)
    -373.      2210.    594.      19.36(  3, 9)       16.79( 97, 6)       13.85(114, 6)       10.85( 62, 6)       10.16( 62, 6)
    -373.      2410.    599.      18.01(  3, 9)       15.04(114, 6)       14.79( 97, 6)        9.37( 63, 6)        8.87(366, 6)
    -373.      4810.    598.       8.11(114, 3)        3.00(120,24)        2.28(134,18)        2.27( 81,21)        2.19( 84,21)
    -173.      -390.    402.      14.62(117, 6)       13.56(135,24)       13.06(128,24)       13.02(135, 6)       11.43(352, 3)
    -173.      2410.    502.      14.62(115, 3)       13.38(  3, 9)        8.51( 62, 6)        8.43( 90, 6)        8.36( 63, 6)
    -173.      4810.    609.       7.11(114, 3)        2.40(114, 6)        2.39(120,24)        2.04( 41, 6)        1.73(134,18)
      27.     -2390.    366.       4.78( 97, 3)        3.33( 98,21)        2.98( 17, 3)        2.75(153, 9)        2.70( 69, 3)
      27.     -1390.    366.       7.56(113,21)        7.49(135,24)        7.45(138, 3)        7.29( 97, 3)        6.93(117, 6)
      27.      -590.    384.      12.32(128,24)       11.22(117, 6)       10.63(153, 3)       10.34(136,24)       10.23(124, 3)
      27.      -390.    392.      15.52(146,24)       15.11(128,24)       14.94(136,24)       13.57(117, 6)       13.35(153, 3)
      27.       610.    293.      32.98( 70, 6)       31.13(123, 3)       29.34(134,21)       27.81(133, 6)       26.32( 73,24)
      27.      1610.    502.      24.47(106, 3)       23.29(134, 6)       20.63( 63, 3)       19.36( 84, 3)       18.48( 90, 3)
      27.      2410.    428.      12.40(115,21)       10.12(115, 3)       10.00(  3, 9)        8.13( 90, 6)        7.74( 62, 6)
      27.      2610.    489.      12.18(115, 3)       11.74(  3, 9)        7.48( 77, 6)        7.28( 90, 6)        7.19( 62, 6)
      27.      3610.    555.       7.73( 97, 6)        6.92(  3, 9)        6.56(114, 6)        5.06( 77, 6)        4.32(366, 6)
      27.      4610.    605.       3.34( 97, 6)        3.20(114, 6)        3.05(366, 6)        2.74(  3, 9)        2.40( 41, 6)
      27.      4810.    609.       3.19(114, 6)        2.99(114, 3)        2.73(366, 6)        2.68(  3, 9)        2.59( 97, 6)
      27.      5610.    487.       4.79(114, 3)        2.35( 92,21)        2.29(115, 6)        2.19(172,21)        1.71(109,21)
     227.      -590.    373.      13.92(146,24)       12.97(128,24)       11.95(146,21)       11.90(150, 6)       11.73(136,24)
     227.      2410.    426.       9.13(140, 3)        7.77(115, 6)        7.67(134, 9)        7.51(147,18)        7.25(104, 6)
     227.      4810.    608.       3.84( 97, 6)        2.97(366, 6)        2.95(114, 6)        2.50(351,24)        2.37(  3, 9)
     427.      -790.    365.      12.24(146,24)       11.27(150, 6)       10.80(128,24)       10.21(146,21)        9.82(150, 3)
     427.      -590.    366.      15.08(137, 6)       14.76(150, 6)       13.66(150, 3)       13.65(146,24)       12.82(147,24)
     427.      2410.    424.      10.67(134, 6)       10.57(115, 6)        9.29(134, 9)        8.91( 98, 3)        8.65( 62,24)
     427.      4810.    575.       4.59( 97, 6)        3.00(351,24)        2.57( 79,21)        2.56(366, 6)        2.48(113,24)
     627.      -790.    360.      12.79(150, 6)       12.11(137, 6)       11.64(150, 3)       11.24(147,24)       11.02(126, 3)
     627.      2410.    408.      15.30(134, 6)       10.83( 62,24)       10.73(115, 6)        9.48(120,21)        8.49(132,21)
     627.      4810.    548.       3.73( 97, 6)        2.91(  3, 9)        2.64( 79,21)        2.56(113,24)        2.26(146,18)
     827.      -790.    355.      15.57(152, 6)       14.71(126, 3)       14.59(125,24)       13.50(137, 6)       13.08(127, 6)
     827.      2410.    372.      16.49(134, 6)       11.95(120,21)        9.50(122,21)        9.38( 92, 3)        9.02(148,18)
     827.      4810.    563.       4.39(  3, 9)        2.74(114, 6)        2.64( 77, 6)        2.38( 97, 6)        2.33(113,24)
    1027.     -2390.    339.       4.90(153, 3)        4.58(136,24)        4.25(117, 6)        4.08(135, 6)        3.44(134,24)
    1027.     -1390.    346.       9.03(150, 6)        7.61(150, 3)        7.45(128,24)        7.40(146,24)        7.19(147,24)
    1027.      -790.    350.      18.42( 98, 6)       14.11(137, 3)       13.63(152, 6)       13.30(126, 3)       12.70(151, 3)
    1027.      -390.    351.      26.68( 98, 6)       18.10( 85, 3)       16.44(137, 3)       16.21( 92, 6)       15.51(152, 3)
    1027.       610.    320.      19.02( 95, 3)       13.81(123,21)       13.33( 89,21)       12.18( 82,24)       12.09(135,21)
    1027.      1610.    398.      58.22( 70, 9)*      36.23( 74, 6)       33.72(218,18)       31.19(123,24)       31.15(151, 9)
    1027.      2410.    363.      14.23(134, 6)       10.31(120,21)        9.90(122,21)        8.40(148,18)        7.86(106, 3)
    1027.      2610.    365.      12.74(134, 6)        9.39(120,21)        9.18(150,24)        8.33( 62,24)        8.16(122,21)
    1027.      3610.    422.       4.46(104, 6)        4.09( 90, 6)        3.83( 93, 6)        3.69(123,24)        3.25(173, 6)
    1027.      4610.    541.       4.93(  3, 9)        3.23( 81,24)        2.97(114, 6)        2.67( 70, 6)        2.49(359, 3)
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                                          HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                       HIGHEST FIVE CONCENTRATIONS
       METERS                                                VALUE(DAY,ENDING HOUR)

     X           Y       ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
----------------------------------------------------------------------------------------------------------------------
    1027.      4810.    548.        4.70(  3, 9)      2.92(114, 6)      2.64( 81,24)      2.56( 77, 6)      2.43(116,21)
    1027.      5610.    600.        3.00(113,24)      2.38( 97, 6)      1.92(  3, 9)      1.71(146,18)      1.61( 77, 6)
    1227.      -790.    344.       16.95( 98, 6)     14.85(137, 3)     13.99(152, 3)     12.76(127, 6)     12.40(151, 3)
    1227.      2410.    355.       10.94(134, 6)      9.65( 86,24)      7.75(122,21)      7.62(150,18)      7.58( 93, 6)
    1227.      4810.    585.        4.42(  3, 9)      2.57(104, 6)      2.56( 70, 6)      2.47(114, 6)      2.46(359, 3)
    1427.      -990.    337.       15.36( 98, 6)     13.03(137, 3)     11.89(152, 3)     10.99(127, 6)     10.86(151, 3)
    1427.      -790.    338.       17.61( 98, 6)     13.51( 94, 3)     13.41( 92, 6)     11.93(137, 3)     11.41(119,21)
    1427.      2410.    346.        7.84(134, 6)      7.52( 63, 3)      7.15(106, 3)      6.67(144,21)      6.31( 70, 3)
    1427.      4810.    588.        3.04(104, 6)      2.75(  3, 9)      2.41(359, 3)      2.30( 70, 6)      2.06( 92, 3)
    1627.     -1190.    331.       13.84( 98, 6)     11.41(137, 3)     10.04(152, 3)      9.64(127, 6)      9.56(151, 3)
    1627.      -990.    332.       15.30( 98, 6)     11.84( 92, 6)     10.60(137, 3)     10.53( 94, 3)      9.90(119,21)
    1627.      1610.    331.       11.11(100,21)     10.44(115,21)     10.40( 70, 3)     10.29(114, 3)      9.49( 93, 6)
    1627.      1810.    331.       17.78( 93, 6)     11.88(122, 6)     10.99(359, 3)     10.66(103,21)     10.27( 89,24)
    1627.      2010.    332.       13.55( 97, 6)     12.58( 93, 6)     12.13(150,21)     11.12(114,24)     10.85( 88, 3)
    1627.      2210.    333.        9.04(366, 6)      8.13( 92,21)      7.70(114, 6)      7.59( 96, 6)      7.35(115, 6)
    1627.      2410.    337.        8.25(114, 3)      7.54(106, 3)      7.14(115, 6)      6.60(150,24)      6.29( 70, 3)
    1627.      4810.    532.        2.76(104, 6)      2.41( 90, 6)      2.35( 81,24)      2.22( 92, 3)      2.01(103,21)
    1627.      5010.    533.        2.48( 81,24)      2.15( 90, 6)      2.09(359, 3)      2.06(104, 6)      2.02( 92, 3)
    1827.     -1390.    325.       12.40( 98, 6)      9.98(137, 3)      8.58(127, 6)      8.42(151, 3)      8.40(152, 3)
    1827.     -1190.    326.       13.61( 98, 6)     10.57( 92, 6)      9.51(137, 3)      8.72(152, 3)      8.46(119,21)
    1827.      1610.    321.       19.76(150,24)     15.16( 96, 6)     10.30(153,24)     10.08( 86,21)      9.61(104, 6)
    1827.      5010.    486.        2.72(115, 3)      2.38(104, 6)      2.33( 81,24)      2.29(173, 6)      2.28( 90, 6)
    2027.     -2390.    309.        5.91(150, 6)      4.97(147,24)      4.84(150, 3)      4.47(128,24)      4.47(146,24)
    2027.     -1390.    320.       12.27( 98, 6)      8.57(137, 3)      7.87(152, 3)      7.38(132,24)      7.21(147,21)
    2027.      -390.    322.       25.80( 70, 6)     21.62(123, 3)     20.67( 73,24)     14.59(127, 3)     12.63( 81, 3)
    2027.       610.    317.       37.95( 74, 3)     36.45(364, 3)     30.25(140, 3)     30.01( 96,24)     25.00( 94, 3)
    2027.      1410.    313.       29.76(114, 3)     25.94(115, 3)     22.69(104, 6)     20.02(115,21)     19.26(115, 6)
    2037.      1231.    311.       51.55(115, 6)     47.37(115, 3)     42.94(116, 3)     38.80(114, 6)     34.11(  3, 9)
    2027.      1610.    312.       19.70(114, 3)     16.99(115,21)     12.09(115, 3)     11.02(113,24)      9.44( 81,24)
    2027.      2610.    327.        6.27(106, 3)      5.33( 70, 3)      5.17(115,24)      4.94(144,21)      4.86(366, 6)
    2027.      3610.    342.        5.87(115, 6)      5.21(114, 3)      4.79(134, 6)      4.23( 98, 3)      4.02( 62,24)
    2027.      4610.    440.        4.45(114, 3)      3.01(115,24)      2.78(104, 6)      2.45(173, 6)      2.13(172,24)
    2027.      5010.    469.        3.33(114, 3)      2.83(104, 6)      2.32(173, 6)      2.14( 90, 6)      2.00(103,21)
    2027.      5610.    515.        2.50( 81,24)      1.90(114, 3)      1.77( 90, 6)      1.69(359, 3)      1.67( 92, 3)
    2227.     -1590.    313.       11.13( 98, 6)      7.74(137, 3)      7.04(152, 3)      6.82(147,21)      6.44(132,24)
    2227.       610.    311.       30.06(127, 3)     30.04(137, 6)     29.83( 70, 6)     29.77( 97, 6)     29.48(128,24)
    2227.       810.    310.       26.15(114, 3)     26.00(359, 3)     25.41(115, 3)     24.16(115, 6)     23.20( 95, 6)
    2227.      1210.    305.       33.74(134, 6)     24.69(122,21)     23.82(120,21)     21.89(106, 3)     21.04( 92, 3)
    2227.      1410.    305.       15.99(115, 6)     15.12(134, 6)     14.03(115,21)     11.70(115, 3)     11.18( 88, 3)
    2227.      5010.    438.        5.04(114, 3)      2.71(115,24)      2.30(104, 6)      2.30(173, 6)      2.09(120,24)
    2427.     -1590.    309.        8.95( 92, 6)      8.82( 98, 6)      7.52(124, 3)      7.41(119,21)      7.07(132,24)
    2427.       410.    307.       25.31(123, 3)     22.48(109, 6)     22.05( 95, 6)     21.69(134,21)     17.00(137, 6)
    2427.       610.    304.       29.23(123, 3)     27.80(109, 6)     22.85( 92, 6)     20.84( 85, 3)     20.24(149,24)
    2427.       810.    305.       19.72(123, 3)     19.14( 70, 6)     17.45(359, 3)     17.11(123, 6)     16.50(109, 6)
    2427.      1210.    305.       20.91( 89,21)     16.15( 77,24)     14.84( 95, 6)     14.69(135,24)     14.68(106, 3)
    2427.      5010.    426.        4.23(114, 3)      2.85(115,24)      2.25(173, 6)      2.05(172,24)      1.85(140,21)
    2627.     -1590.    304.        9.08( 92, 6)      7.83(119,21)      6.40(132,24)      6.11(152, 3)      5.83( 85, 3)
    2627.     -1390.    304.        7.95( 92, 6)      6.90( 85, 3)      6.79(109, 6)      5.74( 93, 3)      5.74( 77, 3)
    2627.      -390.    305.       12.94(133,21)     12.36(117, 6)     11.74(135,24)     11.23(153, 3)     10.43(136,24)
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                                          HIGH FIVE TABLE FOR     3 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                       HIGHEST FIVE CONCENTRATIONS
       METERS                                                VALUE(DAY,ENDING HOUR)

     X           Y       ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
----------------------------------------------------------------------------------------------------------------------
    2627.      -190.    304.       17.64(128,24)     17.38(146,24)     15.66(137, 6)     15.03(150, 6)     14.81(126, 3)
    2627.        10.    305.       21.43(123, 3)     20.86(134,21)     18.10(109, 6)     15.48(146,24)     14.83( 77, 3)
    2627.       210.    305.       19.00(109, 6)     16.58( 98, 6)     16.39(123, 3)     15.10(137, 3)     14.53( 85, 3)
    2627.       410.    305.       17.06( 92, 6)     15.78(109, 6)     15.35(152, 3)     15.20( 98, 6)     14.15( 95, 6)
    2627.       610.    305.       13.33(123, 6)     12.68(135,21)     12.49(123, 3)     12.37( 70, 3)     11.88(149,24)
    2627.       810.    305.       14.25(123, 6)     13.18(359, 3)     11.89(135,21)     10.95( 99,21)     10.66(127,24)
    2627.      1010.    305.       14.16( 99,21)     11.79( 89,21)     11.21(115,21)     11.15( 91,24)     10.65(138,24)
    2627.      1210.    305.       13.60( 88, 3)     11.20(150,21)     10.23(103,21)      9.53(359, 3)      9.18( 89,24)
    2262.       433.    311.       44.99( 98, 6)     44.88(123, 3)     44.55(146,24)     42.41(137, 3)     41.39(137, 6)
 2627.      5010.    380.      2.87(114, 3)     2.49(115,24)     2.45(115, 6)     2.19(173, 6)     2.12(172,24)
 2827.     -1390.    301.      6.98( 85, 3)     6.69(109, 6)     5.57(138, 3)     5.45( 95, 6)     5.44( 97, 3)
 2827.     -1190.    302.     11.05(123, 3)     7.15( 81, 3)     6.40( 98, 6)     6.07(138, 6)     5.93( 85, 3)
 2827.      -990.    302.     11.24(123, 3)     8.85( 73,24)     8.23( 70, 6)     8.20( 81, 3)     7.60(135,24)
 2827.      -790.    302.     14.44( 70, 6)    10.69( 87,24)     8.17(123, 3)     7.81(117, 6)     7.60(135,24)
 2827.      -590.    303.     10.93(127, 3)     9.95(133,21)     9.64(146,21)     9.63(133, 6)     8.01(136,24)
 2827.      -390.    303.     12.42(146,24)    10.92(128,24)    10.77(150, 6)    10.60(137, 6)    10.38(126, 3)
 2827.      -190.    303.     12.56(152, 3)    11.78( 98, 6)    11.72(137, 3)    11.46( 77, 3)    10.87( 92, 6)
 2827.        10.    303.     15.10( 98, 6)    12.88(137, 3)    11.80(152, 3)    10.58(149,21)    10.55(134,21)
 2827.      5010.    358.      2.37(114, 3)     2.23( 92,21)     2.17(115, 6)     2.04(172,24)     2.03(115, 3)
 3027.     -2390.    297.      7.68( 98, 6)     5.20(147,21)     5.14(137, 3)     4.72(139, 3)     4.12(152, 3)
 3027.     -1390.    298.      7.66(123, 3)     6.45( 81, 3)     6.13( 85, 3)     5.62( 98, 6)     5.45(109, 6)
 3027.      -390.    300.     10.71( 98, 6)    10.10(152, 3)     9.96(137, 3)     9.26(134,21)     9.05(127, 6)
 3027.       610.    301.      9.75(123, 6)     9.32( 70, 3)     8.84(135,21)     8.20( 77,24)     7.54(140,24)
 3027.      1610.    302.      7.77(134, 6)     7.16( 63, 3)     6.11(106, 3)     6.03(115,21)     5.78( 70, 3)
 3027.      2610.    303.      4.84(115, 3)     4.41(103,21)     4.35(150,21)     4.28(149,18)     3.91( 84, 3)
 3027.      3610.    305.      4.88(134, 6)     3.72(122,21)     3.35(116, 3)     3.32(115, 3)     3.32( 73,21)
 3027.      4610.    333.      4.01(115, 6)     3.44(116, 3)     2.63( 98, 3)     2.47(115, 3)     2.36(134, 6)
 3027.      5010.    348.      2.74(115, 3)     2.31(115, 6)     2.19( 92,21)     2.07(116, 3)     2.04(137,21)
 3027.      5610.    372.      2.62(115,24)     2.20( 92,21)     2.11(115, 3)     2.04(173, 6)     1.90(172,24)
 3227.      5010.    338.      2.87(115, 6)     2.76(116, 3)     2.15(115, 3)     2.09( 97, 6)     1.80(172,24)
 3227.      5210.    345.      2.38(115, 3)     2.04( 97, 6)     2.02(116, 3)     1.97(351,24)     1.94(115, 6)
 3227.      5610.    362.      2.72(115, 3)     2.42(115,24)     2.15( 92,21)     1.95(173, 6)     1.87(172,24)
 3227.      6010.    373.      2.59(115,24)     2.40(115, 3)     2.14( 92,21)     1.96(173, 6)     1.75(172,24)

* - DENOTES PEAK VALUE
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            POSTZ              (DATED 86224)
1
                                                                          POSTZ - PAGE NO.   1


                               POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

               POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - SOX - 04/20/92 - MPV
               SHORTZ RUN TITLE:  ********************************************************************************

               ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                      0
               ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                0
               ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                  0
               ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)       0
               ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                 0

          1-HOUR AVERAGE ANALYSIS:
               ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                     1
               ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                     0
               ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                 0

          3-HOUR AVERAGE ANALYSIS:
               ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                     1
               ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

          8-HOUR AVERAGE ANALYSIS:
               ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

          24-HOUR AVERAGE ANALYSIS:
               ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

          ANNUAL AVERAGE ANALYSIS:
               ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

          USER-SPECIFIED AVERAGING TIME ANALYSIS
               ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                    0
               ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                0

               ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                         0
               ISW(25) CALMS POLICY (1=YES,0=NO)                                             0


               JULIAN DAY FOR START OF ANALYSIS                                              1
               YEAR FOR START OF ANALYSIS                                                   91
               JULIAN DAY FOR END OF ANALYSIS                                                5
               YEAR FOR END OF ANALYSIS                                                     92
1
                                                                          POSTZ - PAGE NO.   2


                                  HIGH FIVE TABLE FOR     1 HOUR AVERAGES

 RECEPTOR COORDINATES
       METERS                                     HIGHEST FIVE CONCENTRATIONS
                                                   VALUE(DAY,ENDING HOUR)

     X          Y       ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
--------------------------------------------------------------------------------------------------------------------------
    2127.     1210.    308.      46.82(122,20)     46.82( 92, 1)     46.82(106, 1)     46.81(132,19)     44.30(134, 6)
    2227.     1210.    305.      51.90( 87, 1)     50.85(148,18)     50.63(134, 4)     45.89(122,20)     45.89( 92, 1)
    2327.     1210.    305.      52.37( 70, 2)     51.39(144,19)     47.15(106, 3)     44.72( 63, 1)     37.83( 88, 6)
    2427.     1210.    305.      44.52( 95, 5)     44.52( 89,20)     44.07(135,23)     38.81( 88, 6)     38.81( 77,22)
    2527.     1210.    305.      32.23(149,18)     29.61(150,19)     25.78(135,23)     22.88( 84, 1)     22.54( 88, 3)
    2627.     1210.    305.      30.14( 88, 3)     29.21(150,19)     22.66( 93, 4)     20.18(123,21)     18.46(359, 3)
    2037.     1231.    311.      70.71(114, 5)*    68.85(115, 2)*    68.85(115, 4)     68.84( 77, 4)     54.13( 74, 7)
    2027.     1310.    313.      48.73( 92,23)     47.32(366, 6)     47.01(115,24)     47.01(116, 2)     46.60( 97, 5)
    2127.     1310.    307.      37.21(115, 5)     35.02(114, 5)     34.09(115, 3)     34.03(115,20)     33.91(134, 6)
    2227.     1310.    305.      35.80(132,19)     35.76(134, 6)     35.75( 98, 3)     35.24(115, 5)     33.16(148, 6)
    2327.     1310.    305.      37.40(122,20)     37.40( 92, 1)     37.40(106, 1)     35.69(132,19)     35.51(148,18)
    2427.     1310.    305.      38.24(134, 4)     35.06( 87, 1)     33.22( 63, 1)     29.87(148,18)     26.97(144,19)
    2527.     1310.    305.      35.20( 70, 2)     33.62(144,19)     31.89(106, 3)     28.18( 63, 1)     25.31( 88, 6)
    2627.     1310.    305.      30.40( 95, 5)     30.40( 89,20)     30.05( 88, 6)     30.05( 77,22)     30.03(140,22)
    2027.     1410.    313.      36.77(115, 6)     36.46(114, 4)     35.49(366, 6)     34.36(115, 1)     34.13(114, 3)
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   2127.      1410.    308.      44.65(115, 2)      44.65(115, 4)      44.62( 77, 4)      44.44(114, 5)      35.11( 92,23)
   2227.      1410.    305.      27.85(115, 5)      23.82( 91,23)      23.72(134, 6)      23.72( 98, 3)      22.12(125,19)
   2327.      1410.    305.      29.99(134, 6)      29.98( 98, 3)      29.73(115, 5)      25.88(148, 6)      25.43(132,19)
   2427.      1410.    305.      30.08(132,19)      28.75(122,20)      28.75( 92, 1)      28.75(106, 1)      27.35(118,24)
   2527.      1410.    305.      29.96(148,18)      29.08( 87, 1)      25.82(134, 4)      25.35(122,20)      25.35( 92, 1)
   2627.      1410.    305.      27.07( 63, 1)      25.92(134, 4)      23.20(144,19)      21.62( 87, 1)      18.01( 70, 2)
   2327.       410.    310.      47.47(137, 5)      43.15(138, 1)      42.36( 77, 3)      42.01( 98, 4)      42.01(153,22)
   2427.       410.    307.      32.35(123, 1)      32.35(138, 5)      32.23(123, 3)      32.23(134,19)      31.14(109, 4)
   2527.       410.    305.      28.79(127, 2)      27.91(114, 6)      27.00( 97,24)      27.00( 98, 6)      27.00(151,24)
   2627.       410.    305.      27.23( 92, 4)      27.23(123, 2)      27.23(150, 7)      26.58( 77, 2)      26.58( 94, 3)
   2262.       433.    311.      63.35(117, 6)      60.80(153, 2)      56.81( 87,22)      56.81(132,24)      54.40( 77, 3)
   2262.       510.    312.      50.75( 98, 4)      50.75(153,22)      47.41( 97,24)      47.41( 98, 6)      47.41(151,24)
   2327.       510.    309.      36.39(132,19)      33.58(148, 6)      33.43( 98, 3)      33.43(134, 6)      33.08(118,24)
   2427.       510.    304.      36.02(114, 6)      34.95( 98, 5)      34.54(298, 6)      34.06(127, 2)      31.78(137, 3)
   2527.       510.    304.      32.11( 77, 2)      32.11( 94, 3)      31.14( 92, 5)      30.43( 92, 4)      30.43(123, 2)
   2627.       510.    305.      24.51(109, 4)      24.32( 73,22)      24.32( 85, 1)      24.32( 95, 4)      24.00(151, 6)
   2227.       610.    311.      44.57(153, 2)      44.12( 87,22)      44.12(132,24)      41.59(124, 3)      40.49(117, 6)
   2327.       610.    308.      45.13( 98, 5)      43.85( 92, 4)      43.85(123, 2)      43.85(150, 7)      43.26(114, 6)
   2427.       610.    304.      38.20( 92, 5)      37.05( 93, 2)      36.03( 77, 2)      36.03( 94, 3)      34.36( 73,22)
   2527.       610.    305.      29.29(151, 6)      27.70(123, 4)      24.95(123, 3)      24.95(134,19)      24.73(125,20)
   2627.       610.    305.      26.93(123, 4)      25.69(151, 6)      18.90(125,20)      17.88(149,24)      17.68(136, 5)
   2227.       710.    311.      58.50( 92, 4)      58.50(123, 2)      58.50(150, 7)      56.80( 98, 5)      56.72( 77, 2)
   2327.       710.    308.      44.11( 73,22)      44.11( 85, 1)      44.11( 95, 4)      42.73( 93, 2)      42.01(109, 4)
   2427.       710.    306.      28.58(123, 4)      26.18(151, 6)      23.78(136, 5)      23.78(153,23)      23.78(124, 5)
   2527.       710.    304.      27.14(123, 4)      25.05( 73,23)      23.74(151, 6)      22.58( 70, 5)      22.38(136, 5)
   2627.       710.    305.      25.74(123, 4)      21.57(151, 6)      21.42(136, 5)      21.41(153,23)      21.41(124, 5)
   2227.       810.    310.      42.03(136, 5)      42.03(124, 5)      42.03(153,23)      38.71(123, 4)      34.34(359, 2)
   2327.       810.    307.      37.39(136, 5)      37.39(153,23)      37.39(124, 5)      34.75(123, 4)      33.95( 73,23)
   2427.       810.    305.      34.23(136, 5)      34.23(153,23)      34.23(124, 5)      30.46(123, 4)      27.18(359, 2)
   2527.       810.    304.      31.76(136, 5)      31.76(153,23)      31.76(124, 5)      27.18(123, 4)      24.76(359, 2)
   2627.       810.    305.      29.67(136, 5)      29.67(153,23)      29.67(124, 5)      24.77(123, 4)      22.82(359, 2)

* - DENOTES PEAK VALUE
1                                                                                                     POSTZ - PAGE NO.   3


                                             HIGH FIVE TABLE FOR     3 HOUR AVERAGES

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
      METERS                                                    VALUE(DAY,ENDING HOUR)

    X           Y        ELEV.       HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
------------------------------------------------------------------------------------------------------------------------------
   2127.      1210.    308.      33.14(134, 6)      25.60( 92, 3)      24.34(106, 3)      23.13(115, 6)      21.85(120,21)
   2227.      1210.    305.      33.74(134, 6)      24.69(122,21)      23.82(120,21)      21.89(106, 3)      21.04( 92, 3)
   2327.      1210.    305.      22.13( 70, 3)      22.08(106, 3)      19.15(144,21)      18.59(134, 6)      17.64( 63, 3)
   2427.      1210.    305.      20.91( 89,21)      16.15( 77,24)      14.84( 95, 6)      14.69(135,24)      14.68(106, 3)
   2527.      1210.    305.      12.09( 89,21)      10.98(150,21)      10.83( 88, 3)      10.74(149,18)      10.35(103,21)
   2627.      1210.    305.      13.60( 88, 3)      11.20(150,21)      10.23(103,21)       9.53(359, 3)       9.18( 89,24)
   2037.      1231.    311.      51.55(115, 6)*     47.37(115, 3)*     42.94(116, 3)      38.80(114, 6)      34.11(  3, 9)
   2027.      1310.    313.      38.74(115, 3)      35.12(115, 6)      33.88(114, 3)      32.29(116, 3)      29.45(114, 6)
   2127.      1310.    307.      26.77(115, 6)      23.30(115, 3)      20.73(116, 3)      20.37(134, 6)      19.00(115,21)
   2227.      1310.    305.      23.00(134, 6)      19.12(115, 6)      17.13(366, 6)      16.91(115,21)      15.81( 88, 3)
   2327.      1310.    305.      24.92(134, 6)      19.39(122,21)      18.54(120,21)      18.26(115, 6)      16.46(106, 3)
   2427.      1310.    305.      22.26(134, 6)      13.39( 63, 3)      12.13(120,21)      11.92(106, 3)      11.71(366, 6)
   2527.      1310.    305.      15.17(106, 3)      14.93( 70, 3)      12.23( 89,21)      11.70( 63, 3)      11.65(144,21)
   2627.      1310.    305.      16.05( 89,21)      12.32( 77,24)      12.05(106, 3)      10.81(140,24)      10.13( 95, 6)
   2027.      1410.    313.      29.76(114, 3)      25.94(115, 3)      22.69(104, 6)      20.02(115,21)      19.26(115, 6)
   2127.      1410.    308.      29.33(115, 3)      25.72(116, 3)      21.12(115, 6)      20.82(115,24)      20.45(114, 6)
   2227.      1410.    305.      15.99(115, 6)      15.12(134, 6)      14.03(115,21)      11.70(115, 3)      11.18( 88, 3)
   2327.      1410.    305.      18.75(115, 6)      17.67(134, 6)      17.06(116, 3)      12.88(115, 3)      12.15(115,21)
   2427.      1410.    305.      19.22(134, 6)      13.68(122,21)      13.27(120,21)      12.77(115, 6)      12.68(106, 3)
   2527.      1410.    305.      18.54(134, 6)      13.20(120,21)      11.54(106, 3)      11.47(122,21)      11.26( 92, 3)
   2627.      1410.    305.      14.18(134, 6)      11.16( 63, 3)       9.00(106, 3)       8.81(122,21)       8.39(115, 3)
   2327.       410.    310.      39.88( 98, 6)      37.94(123, 3)      37.53(137, 3)      35.68(114, 6)      34.93(127, 6)
   2427.       410.    307.      25.31(123, 3)      22.48(109, 6)      22.05( 95, 6)      21.69(134,21)      17.00(137, 6)
   2527.       410.    305.      25.04( 98, 6)      19.52(137, 3)      18.22( 88, 6)      17.96(152, 3)      16.85(127, 3)
   2627.       410.    305.      17.06( 92, 6)      15.78(109, 6)      15.35(152, 3)      15.20( 98, 6)      14.15( 95, 6)
   2262.       433.    311.      44.99( 98, 6)      44.88(123, 3)      44.55(146,24)      42.41(137, 3)      41.39(137, 6)
   2262.       510.    312.      47.23( 98, 6)      43.51(123, 3)      35.84( 85, 3)      33.73(118,24)      33.57(109, 6)
   2327.       510.    309.      29.42(115, 6)      23.82(134, 6)      23.77(116, 3)      22.99(114, 6)      22.84(115, 3)
   2427.       510.    304.      31.10( 98, 6)      25.20(137, 3)      24.42(152, 3)      22.24(127, 3)      20.32(147,21)
   2527.       510.    304.      21.45(123, 3)      20.97(109, 6)      20.52( 92, 6)      17.73( 85, 3)      16.09( 70, 3)
   2627.       510.    305.      17.15(123, 3)      16.83(109, 6)      15.64(134,21)      15.59( 70, 3)      13.67(149,24)
   2227.       610.    311.      30.06(127, 3)      30.04(137, 6)      29.83( 70, 6)      29.77( 97, 6)      29.48(128,24)
   2327.       610.    308.      37.81( 98, 6)      31.85(137, 3)      31.15(152, 3)      28.68( 70, 6)      27.34(127, 3)
   2427.       610.    304.      29.23(123, 3)      27.80(109, 6)      22.85( 92, 6)      20.84( 85, 3)      20.24(149,24)
   2527.       610.    305.      18.19(123, 3)      16.06(134,21)      15.09(135,21)      14.69(109, 6)      14.24(149,24)
   2627.       610.    305.      13.33(123, 6)      12.68(135,21)      12.49(123, 3)      12.37( 70, 3)      11.88(149,24)
   2227.     710.    311.      47.80( 98, 6)      47.32(123, 3)      41.53(114, 6)      41.44(137, 3)      39.85(152, 3)
   2327.     710.    308.      30.68(123, 3)      29.33(109, 6)      25.73( 95, 6)      23.76(134,21)      22.22( 85, 3)
   2427.     710.    306.      16.24(359, 3)      15.93(116, 3)      15.53(115, 3)      15.52( 70, 6)      15.33( 98, 6)
   2527.     710.    304.      15.82( 70, 6)      14.49(123, 3)      13.84(123, 6)      13.42(359, 3)      13.35(149,24)
   2627.     710.    305.      13.00(123, 6)      12.79(123, 3)      12.60(106, 3)      12.56(359, 3)      12.51( 70, 6)
   2227.     810.    310.      26.15(114, 3)      26.00(359, 3)      25.41(115, 3)      24.16(115, 6)      23.20( 95, 6)
   2327.     810.    307.      22.10( 70, 6)      20.50( 88, 6)      20.47( 98, 6)      19.46( 70, 3)      19.33(153,24)
   2427.     810.    305.      19.72(123, 3)      19.14( 70, 6)      17.45(359, 3)      17.11(123, 6)      16.50(109, 6)
   2527.     810.    304.      15.46(123, 6)      14.12(359, 3)      12.80(149,24)      12.60(123, 3)      12.38(134,21)
   2627.     810.    305.      14.25(123, 6)      13.18(359, 3)      11.89(135,21)      10.95( 99,21)      10.66(127,24)

* - DENOTES PEAK VALUE
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            POSTZ                  (DATED 86224)
1                                                                                        POSTZ - PAGE NO.   1


                                      POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

           POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - SOX - 04/20/92 - MPV
           SHORTZ RUN TITLE:  ********************************************************************************

           ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                          0
           ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                    0
           ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                      0
           ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)           0
           ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                     0

       1-HOUR AVERAGE ANALYSIS:
           ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         0
           ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                         0
           ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                     0

       3-HOUR AVERAGE ANALYSIS:
           ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                         0
           ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
           ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

       8-HOUR AVERAGE ANALYSIS:
           ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
           ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
           ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

       24-HOUR AVERAGE ANALYSIS:
           ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        1
           ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
           ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

       ANNUAL AVERAGE ANALYSIS:
           ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        1
           ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
           ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

       USER-SPECIFIED AVERAGING TIME ANALYSIS
           ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
           ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                        0
           ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

           ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                             0
           ISW(25) CALMS POLICY (1=YES,0=NO)                                                 0


           JULIAN DAY FOR START OF ANALYSIS                                                  1
           YEAR FOR START OF ANALYSIS                                                       91
           JULIAN DAY FOR END OF ANALYSIS                                                    5
           YEAR FOR END OF ANALYSIS                                                         92
1                                                                                        POSTZ - PAGE NO.   2


                                          HIGH FIVE TABLE FOR    24 HOUR AVERAGES

  RECEPTOR COORDINATES                                       HIGHEST FIVE CONCENTRATIONS
       METERS                                                 VALUE(DAY,ENDING HOUR)

    X            Y        ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-------------------------------------------------------------------------------------------------------------------------
   -5973.     -2390.     798.        0.07(  1,24)      0.07(120,24)      0.07(114,24)      0.06(151,24)      0.05( 97,24)
   -5973.     -1390.     793.        0.14( 51,24)      0.12(365,24)      0.11(114,24)      0.10(106,24)      0.09(108,24)
   -5973.      -390.     781.        0.35(  7,24)      0.24( 77,24)      0.18( 68,24)      0.14( 72,24)      0.13(124,24)
   -5973.       610.     852.        0.34( 77,24)      0.28( 74,24)      0.23( 70,24)      0.22(111,24)      0.19(144,24)
   -5973.      1610.     731.        0.39( 70,24)      0.28( 74,24)      0.26( 96,24)      0.23(135,24)      0.23(134,24)
   -5973.      2610.     730.        0.30( 74,24)      0.23(136,24)      0.21( 94,24)      0.21( 96,24)      0.20(132,24)
   -5973.      3610.     728.        0.19( 98,24)      0.15( 95,24)      0.15(123,24)      0.15( 94,24)      0.15( 77,24)
   -5973.      4610.     747.        0.18( 70,24)      0.17( 96,24)      0.16( 74,24)      0.15(151,24)      0.13(105,24)
   -5973.      5610.     625.        0.20( 96,24)      0.17( 74,24)      0.16(218,24)      0.14(147,24)      0.13(134,24)
   -4973.     -2390.     797.        0.16(114,24)      0.12(115,24)      0.08(  1,24)      0.07(117,24)      0.07(106,24)
   -4973.     -1390.     731.        0.25(350,24)      0.23( 74,24)      0.19(120,24)      0.17( 55,24)      0.15(351,24)
   -4973.      -390.     652.        0.44(365,24)      0.34(106,24)      0.33(120,24)      0.28(  3,24)      0.28(117,24)
   -4973.      1610.     771.        0.44(123,24)      0.38( 77,24)      0.38(107,24)      0.37(100,24)      0.36( 95,24)
   -4973.      2610.     792.        0.27( 74,24)      0.26(112,24)      0.22( 88,24)      0.22(135,24)      0.21(106,24)
   -4973.      3610.     904.        0.20(136,24)      0.19(105,24)      0.18(132,24)      0.17(139,24)      0.17( 89,24)
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    -4973.      4610.    858.        0.17( 96,24)        0.13( 89,24)        0.13(105,24)        0.13(112,24)        0.13(100,24)
    -4973.      5610.    570.        0.18( 96,24)        0.15(132,24)        0.15(218,24)        0.14(134,24)        0.13( 74,24)
    -4773.       410.    646.        2.28( 77,24)        1.92( 88,24)        1.80(106,24)        1.63( 74,24)        1.51( 95,24)
    -4773.       610.    669.        2.17(105,24)        2.16( 96,24)        1.77( 70,24)        1.76( 89,24)        1.61(151,24)
    -4773.       810.    666.        1.46(132,24)        1.29(133,24)        1.29(112,24)        1.03( 74,24)        1.00(150,24)
    -4773.      1010.    695.        1.10( 74,24)        1.06(132,24)        0.85( 94,24)        0.84(133,24)        0.83(136,24)
    -4773.      1210.    730.        0.67(123,24)        0.59(147,24)        0.56( 77,24)        0.53( 95,24)        0.53(107,24)
    -4773.      1210.    730.        0.67(123,24)        0.59(147,24)        0.56( 77,24)        0.53( 95,24)        0.53(107,24)
    -4573.       410.    633.        3.79( 94,24)        3.08( 88,24)        3.02( 72,24)        3.01(113,24)        2.74(105,24)
    -4573.      1210.    722.        0.64( 39,24)        0.59(148,24)        0.51( 77,24)        0.49( 45,24)        0.48(149,24)
    -4573.      4810.    853.        0.17(134,24)        0.16(132,24)        0.14( 96,24)        0.13(135,24)        0.13(112,24)
    -4373.        10.    609.        3.70(  1,24)        2.86(365,24)        1.86(350,24)        1.83(107,24)        1.83(357,24)
    -4373.       210.    554.        0.87( 77,24)        0.63(354,24)        0.58( 72,24)        0.55(107,24)        0.48(361,24)
    -4373.       410.    583.        2.64( 67,24)        2.50( 69,24)        2.16( 66,24)        2.07( 75,24)        1.76(112,24)
    -4373.      1410.    694.        0.52( 76,24)        0.51( 92,24)        0.48( 38,24)        0.47(104,24)        0.43( 45,24)
    -4373.      1610.    756.        0.47( 76,24)        0.46( 92,24)        0.44( 70,24)        0.41( 89,24)        0.40( 96,24)
    -4373.      1610.    756.        0.47( 76,24)        0.46( 92,24)        0.44( 70,24)        0.41( 89,24)        0.40( 96,24)
    -4373.      4810.    856.        0.19(132,24)        0.13(134,24)        0.13(150,24)        0.13( 96,24)        0.12(112,24)
    -4173.        10.    553.        0.94(  1,24)        0.81(347,24)        0.75(230,24)        0.58(342,24)        0.57(346,24)
    -4173.      1610.    787.        0.57( 74,24)        0.56( 70,24)        0.45( 63,24)        0.44(144,24)        0.44( 64,24)
    -4173.      4810.    828.        0.22(132,24)        0.18(133,24)        0.16(134,24)        0.14(150,24)        0.12(136,24)
    -3973.     -2390.    767.        0.20( 23,24)        0.16( 74,24)        0.15(114,24)        0.14( 73,24)        0.12( 78,24)
    -3973.     -1390.    732.        0.37(114,24)        0.30(  1,24)        0.30( 22,24)        0.27( 23,24)        0.25( 55,24)
    -3973.      -390.    548.        0.69(249,24)        0.53( 27,24)        0.53( 96,24)        0.50( 26,24)        0.48(157,24)
    -3973.        10.    549.        1.89( 20,24)        1.62( 12,24)        1.50( 16,24)        1.36( 25,24)        1.34(  2,24)
    -3973.       610.    722.        2.40( 37,24)        2.31( 62,24)        2.00( 29,24)        1.80( 28,24)        1.58( 41,24)
    -3973.      1610.    773.        0.55( 41,24)        0.54(134,24)        0.52( 84,24)        0.50( 74,24)        0.45(128,24)
    -3973.      2610.    875.        0.36( 88,24)        0.30(139,24)        0.29(128,24)        0.28( 94,24)        0.26(136,24)
    -3973.      3610.    914.        0.21(105,24)        0.21( 96,24)        0.20(134,24)        0.20( 89,24)        0.19(148,24)
    -3973.      4610.    954.        0.24(132,24)        0.15(133,24)        0.14(136,24)        0.14(134,24)        0.13(145,24)
    -3973.      4810.    838.        0.23(132,24)        0.18(133,24)        0.16(134,24)        0.15(150,24)        0.14(136,24)
    -3973.      5610.    686.        0.18( 74,24)        0.17(133,24)        0.14(132,24)        0.13(147,24)        0.12(123,24)
    -3773.        10.    549.        1.00(  4,24)        0.76(327,24)        0.75( 34,24)        0.74(336,24)        0.69(156,24)
    -3773.      1610.    755.        0.47( 74,24)        0.40(109,24)        0.39(112,24)        0.38( 29,24)        0.37(133,24)
1
                                                                                                   POSTZ - PAGE NO.   3


                                           HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
      METERS                                                    VALUE(DAY,ENDING HOUR)

     X            Y       ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
-----------------------------------------------------------------------------------------------------------------------------------
    -3773.      1810.    792.        0.43(109,24)        0.42( 68,24)        0.42(132,24)        0.36( 74,24)        0.33( 77,24)
    -3773.      2010.    824.        0.40(136,24)        0.38(132,24)        0.35( 88,24)        0.34(126,24)        0.33( 77,24)
    -3773.      4810.    839.        0.23(132,24)        0.17(133,24)        0.16(134,24)        0.15(150,24)        0.15(136,24)
    -3573.        10.    549.        0.79(  7,24)        0.78(107,24)        0.59( 35,24)        0.59(336,24)        0.48(149,24)
    -3573.      2010.    848.        0.44( 88,24)        0.38( 77,24)        0.34( 82,24)        0.34(106,24)        0.33(144,24)
    -3573.      4810.    852.        0.21(132,24)        0.19(134,24)        0.16(150,24)        0.15(133,24)        0.14(136,24)
    -3373.        10.    549.        0.49(149,24)        0.45(103,24)        0.43(146,24)        0.41(336,24)        0.39(129,24)
    -3373.      2010.    799.        0.56( 77,24)        0.52( 88,24)        0.47( 95,24)        0.44(123,24)        0.43(148,24)
    -3373.      4810.    831.        0.20(134,24)        0.19(133,24)        0.17(132,24)        0.15(150,24)        0.15(147,24)
    -3273.      2010.    787.        0.57(148,24)        0.57( 77,24)        0.55( 88,24)        0.52(122,24)        0.45(149,24)
    -3273.      2210.    841.        0.52(148,24)        0.46( 88,24)        0.44( 98,24)        0.43(139,24)        0.41(122,24)
    -3273.      2410.    862.        0.42(139,24)        0.41(146,24)        0.41(105,24)        0.40(148,24)        0.37( 89,24)
    -3173.        10.    567.        1.32( 96,24)        1.04(102,24)        0.97( 46,24)        0.80(  9,24)        0.77(131,24)
    -3173.      2410.    841.        0.65( 96,24)        0.47(146,24)        0.47(105,24)        0.45(122,24)        0.43(139,24)
    -3173.      4810.    806.        0.18(133,24)        0.17(134,24)        0.16(107,24)        0.15(147,24)        0.15(132,24)
    -2973.     -2390.    661.        0.29(  3,24)        0.27(106,24)        0.26( 74,24)        0.24(352,24)        0.17( 19,24)
    -2973.     -1390.    613.        0.44( 40,24)        0.42(114,24)        0.39( 68,24)        0.37(146,24)        0.34(352,24)
    -2973.      -390.    609.        0.96(  3,24)        0.94( 74,24)        0.81( 61,24)        0.70(350,24)        0.67(355,24)
    -2973.        10.    601.        1.38(365,24)        1.05(106,24)        0.99(131,24)        0.98(107,24)        0.97(114,24)
    -2973.       610.    579.        3.08( 96,24)        3.00(105,24)        2.48(122,24)        2.41( 94,24)        2.27( 88,24)
    -2973.      1610.    823.        0.67( 77,24)        0.57(106,24)        0.53( 92,24)        0.52(148,24)        0.52(149,24)
    -2973.      2410.    784.        0.77( 70,24)        0.74( 96,24)        0.68(151,24)        0.64(122,24)        0.55(105,24)
    -2973.      2610.    786.        0.74( 74,24)        0.72( 70,24)        0.57( 96,24)        0.55(122,24)        0.53(134,24)
    -2973.      3610.    865.        0.41(132,24)        0.31(150,24)        0.27(136,24)        0.24(133,24)        0.21(147,24)
    -2973.      4610.    770.        0.18(133,24)        0.17(107,24)        0.17( 74,24)        0.17(134,24)        0.16(147,24)
    -2973.      4810.    747.        0.17(123,24)        0.16(133,24)        0.15(134,24)        0.15(107,24)        0.15( 74,24)
    -2973.      5610.    642.        0.13(132,24)        0.13(123,24)        0.12( 76,24)        0.11(147,24)        0.11(290,24)
    -2773.        10.    609.        3.00(  1,24)        2.91(114,24)        2.28(  3,24)        2.17(  1,24)        2.03(352,24)
    -2773.      2410.    731.        1.01( 70,24)        0.84( 74,24)        0.75( 96,24)        0.65( 89,24)        0.64(151,24)
    -2773.      4810.    724.        0.18(123,24)        0.15(134,24)        0.15(133,24)        0.14(132,24)        0.13(147,24)
    -2573.        10.    587.        3.69( 27,24)        3.38(  2,24)        3.10( 18,24)        2.94(351,24)        2.84( 69,24)
    -2573.      2410.    732.        1.14( 74,24)        0.76( 70,24)        0.72(133,24)        0.72(134,24)        0.68( 96,24)
    -2573.      4810.    713.        0.17(123,24)        0.16(133,24)        0.15(132,24)        0.14(134,24)        0.14(120,24)
    -2373.        10.    574.        5.17(130,24)        4.01( 15,24)        3.97(152,24)        3.92( 22,24)        3.57( 27,24)
    -2373.      2410.    726.        1.06( 74,24)        0.83(133,24)        0.80(132,24)        0.72(134,24)        0.63( 94,24)
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  -2373.     4810.   700.        0.17( 45,24)      0.16(132,24)      0.15(123,24)      0.15(133,24)      0.15( 78,24)
  -2173.       10.   564.        4.17(146,24)      3.78( 31,24)      3.63(  6,24)      3.58( 16,24)      3.41(130,24)
  -2173.     2410.   675.        0.92(132,24)      0.82( 74,24)      0.81(133,24)      0.76(120,24)      0.74(134,24)
  -2173.     4810.   675.        0.22( 45,24)      0.20( 84,24)      0.17(132,24)      0.16( 76,24)      0.15( 74,24)
  -1973.    -2390.   487.        0.38(363,24)      0.37(355,24)      0.30(114,24)      0.26(362,24)      0.25(351,24)
  -1973.    -1390.   522.        0.51(351,24)      0.42(  3,24)      0.35( 65,24)      0.35(  9,24)      0.34( 34,24)
  -1973.     -390.   487.        1.00(  3,24)      0.91(130,24)      0.83( 25,24)      0.82( 31,24)      0.79( 15,24)
  -1973.     -190.   526.        1.51( 20,24)      1.50( 16,24)      1.43( 68,24)      1.25(128,24)      1.20(  3,24)
  -1973.       10.   549.        4.16(119,24)      2.35(120,24)      2.20(132,24)      1.73(114,24)      1.63(123,24)
  -1973.      210.   549.        5.24(142,24)      4.07(131,24)      2.64(110,24)      2.52(108,24)      2.42( 51,24)
  -1973.      410.   547.        6.67(145,24)      6.25(100,24)      5.75(144,24)      5.23(118,24)      4.68(111,24)
  -1973.      610.   479.        1.31( 54,24)      1.23(121,24)      1.19( 42,24)      1.16(215,24)      1.11(149,24)
  -1973.     1610.   768.        2.21( 96,24)      2.21( 70,24)      1.85(122,24)      1.81(139,24)      1.69(105,24)
  -1973.     2410.   675.        0.96(132,24)      0.79(123,24)      0.74(147,24)      0.71(133,24)      0.66( 74,24)
1                                                                                          POSTZ - PAGE NO.    4


                                      HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                   HIGHEST FIVE CONCENTRATIONS
       METERS                                            VALUE(DAY,ENDING HOUR)

    X           Y       ELEV.        HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
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  -1973.     2610.   799.        0.73(132,24)      0.58(123,24)      0.58(147,24)      0.53(133,24)      0.52(134,24)
  -1973.     3610.   696.        0.38(134,24)      0.33(120,24)      0.28(133,24)      0.28(123,24)      0.27( 84,24)
  -1973.     4610.   628.        0.25( 45,24)      0.20( 84,24)      0.20( 76,24)      0.18( 74,24)      0.18(120,24)
  -1973.     4810.   646.        0.22( 45,24)      0.19( 84,24)      0.19( 76,24)      0.17( 75,24)      0.16(132,24)
  -1973.     5610.   597.        0.28(107,24)      0.14( 45,24)      0.14( 75,24)      0.13(108,24)      0.13(290,24)
  -1773.     -790.   529.        0.78(143,24)      0.73(130,24)      0.73(351,24)      0.71(146,24)      0.71(  3,24)
  -1773.     -590.   497.        1.00(  3,24)      0.78(351,24)      0.67( 31,24)      0.67( 20,24)      0.65(143,24)
  -1773.      210.   539.        2.29(131,24)      2.25(142,24)      2.12( 99,24)      2.02(110,24)      1.65(104,24)
  -1773.      410.   491.        2.28(100,24)      1.81(118,24)      1.65(114,24)      1.63(144,24)      1.36(104,24)
  -1773.     2410.   668.        0.91(123,24)      0.86(147,24)      0.83(132,24)      0.65(134,24)      0.64( 74,24)
  -1773.     4810.   609.        0.33(107,24)      0.24(114,24)      0.21( 45,24)      0.20( 76,24)      0.19(120,24)
  -1573.    -1190.   433.        0.71(363,24)      0.50(351,24)      0.45(364,24)      0.40(355,24)      0.39(106,24)
  -1573.     -990.   459.        0.76(363,24)      0.67(351,24)      0.49(  3,24)      0.47(364,24)      0.45(355,24)
  -1573.     -790.   482.        0.82(363,24)      0.73(351,24)      0.65(  3,24)      0.48(364,24)      0.47(355,24)
  -1573.     -590.   487.        0.89(363,24)      0.74(351,24)      0.71(  3,24)      0.54(355,24)      0.50(364,24)
  -1573.     -390.   465.        0.97(363,24)      0.94(  3,24)      0.81(351,24)      0.67( 74,24)      0.67(355,24)
  -1573.     -190.   475.        1.36(  3,24)      1.02(363,24)      0.92(351,24)      0.90( 74,24)      0.88(355,24)
  -1573.       10.   505.        1.33(  3,24)      1.12(141,24)      1.12(108,24)      1.08(351,24)      1.06( 74,24)
  -1573.      210.   495.        1.67(  3,24)      1.63(352,24)      1.31(355,24)      1.28(114,24)      1.26(351,24)
  -1573.      410.   482.        2.02(355,24)      1.98(  3,24)      1.65(352,24)      1.63(114,24)      1.51(100,24)
  -1573.     2410.   648.        0.86(123,24)      0.82(147,24)      0.69(134,24)      0.63( 45,24)      0.58( 38,24)
  -1573.     4810.   609.        0.38(107,24)      0.20( 45,24)      0.18( 76,24)      0.18(114,24)      0.17( 74,24)
  -1373.    -1190.   427.        0.74(363,24)      0.54(364,24)      0.46( 85,24)      0.44(106,24)      0.39(  3,24)
  -1373.     2410.   609.        1.24(107,24)      0.97( 96,24)      0.86( 45,24)      0.71( 38,24)      0.69( 39,24)
  -1373.     4810.   575.        0.39(107,24)      0.19(113,24)      0.19(133,24)      0.18( 63,24)      0.18( 86,24)
  -1173.    -1190.   423.        0.64(364,24)      0.60(363,24)      0.50(106,24)      0.47( 23,24)      0.43( 69,24)
  -1173.     -990.   423.        0.77(363,24)      0.68(364,24)      0.53(106,24)      0.50( 23,24)      0.46( 69,24)
  -1173.     -790.   424.        0.96(363,24)      0.73(364,24)      0.55( 23,24)      0.54( 94,24)      0.52(106,24)
  -1173.     -590.   425.        1.15(363,24)      0.80(364,24)      0.70( 94,24)      0.64( 23,24)      0.57( 85,24)
  -1173.     -390.   425.        1.36(363,24)      0.94( 94,24)      0.91(364,24)      0.76( 23,24)      0.66(  3,24)
  -1173.     2410.   610.        1.35(107,24)      1.02( 84,24)      0.99( 63,24)      0.92( 45,24)      0.89( 96,24)
  -1173.     4810.   555.        0.30(123,24)      0.27(107,24)      0.21(133,24)      0.20( 63,24)      0.20(113,24)
   -973.    -2390.   407.        0.40(352,24)      0.35(  1,24)      0.30(364,24)      0.27( 94,24)      0.27(365,24)
   -973.    -1390.   411.        0.56( 94,24)      0.48(124,24)      0.45(364,24)      0.41(  3,24)      0.36( 23,24)
   -973.     -390.   421.        1.56(124,24)      1.06( 94,24)      0.93( 23,24)      0.89(364,24)      0.77(363,24)
   -973.     -190.   423.        1.94(124,24)      1.32( 94,24)      1.14(363,24)      1.12( 23,24)      1.08(364,24)
   -973.      610.   387.        8.37(124,24)      5.36(135,24)      5.20(113,24)      5.10(150,24)      5.08(  3,24)
   -973.     1610.   594.        5.10( 62,24)      4.96( 63,24)      3.95(107,24)      3.94(114,24)      3.40( 45,24)
   -973.     2410.   610.        1.25(114,24)      1.23(107,24)      1.08( 63,24)      1.07( 41,24)      0.87(120,24)
   -973.     2610.   609.        0.96(114,24)      0.95(107,24)      0.88( 63,24)      0.84( 41,24)      0.71( 84,24)
   -973.     3610.   609.        0.48( 63,24)      0.38( 62,24)      0.38( 41,24)      0.36(107,24)      0.34(133,24)
   -973.     4610.   551.        0.27(123,24)      0.27(107,24)      0.26( 63,24)      0.24( 41,24)      0.19(144,24)
   -973.     4810.   549.        0.24(107,24)      0.24(123,24)      0.23( 63,24)      0.22( 41,24)      0.18(133,24)
   -973.     5610.   549.        0.18( 63,24)      0.16(123,24)      0.16(107,24)      0.15( 78,24)      0.15( 41,24)
   -773.     -190.   420.        2.45(124,24)      1.96( 97,24)      1.25( 94,24)      1.23(113,24)      1.23(352,24)
   -773.     2010.   603.        2.41(114,24)      2.20( 63,24)      2.01( 62,24)      1.90( 41,24)      1.49(133,24)
   -773.     2210.   610.        1.98(114,24)      1.56( 63,24)      1.53( 41,24)      1.52( 62,24)      1.01(140,24)
   -773.     2410.   610.        1.44(114,24)      1.28( 41,24)      1.03( 63,24)      0.89( 62,24)      0.81(120,24)
   -773.     4810.   549.        0.27(107,24)      0.25( 41,24)      0.24( 63,24)      0.23( 78,24)      0.23( 81,24)
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                                      HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)
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RECEPTOR COORDINATES                                 HIGHEST FIVE CONCENTRATIONS
     METERS                                            VALUE(DAY,ENDING HOUR)

    X           Y      ELEV.        HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
------------------------------------------------------------------------------------------------------------------------------
   -573.     -190.    417.      3.16(124,24)       1.90( 97,24)        1.75(135,24)        1.59(138,24)        1.51(136,24)
   -573.     2010.    593.      2.37( 62,24)       2.13(114,24)        1.63( 63,24)        1.35(  3,24)        1.22( 29,24)
   -573.     2210.    609.      2.08(114,24)       1.59( 62,24)        1.25( 63,24)        1.13(  3,24)        1.04(140,24)
   -573.     2410.    610.      1.91(114,24)       1.32( 62,24)        0.98( 63,24)        0.96(  3,24)        0.85( 41,24)
   -573.     4810.    572.      0.34(114,24)       0.24( 41,24)        0.22( 78,24)        0.22(107,24)        0.21( 63,24)
   -373.     -390.    410.      1.76(124,24)       1.54(135,24)        1.44( 97,24)        1.42(352,24)        1.17(136,24)
   -373.     -190.    418.      2.00(124,24)       1.88(135,24)        1.74(352,24)        1.70( 97,24)        1.37(138,24)
   -373.     2010.    564.      2.36( 62,24)       1.67( 90,24)        1.36( 63,24)        1.15(133,24)        1.13(104,24)
   -373.     2210.    594.      1.82( 62,24)       1.23( 63,24)        1.03(133,24)        0.99(  3,24)        0.97( 97,24)
   -373.     2410.    599.      1.31( 62,24)       0.99(133,24)        0.92( 63,24)        0.92(  3,24)        0.91( 74,24)
   -373.     4810.    598.      0.44(114,24)       0.22( 78,24)        0.21( 62,24)        0.21( 41,24)        0.20(120,24)
   -173.     -390.    402.      1.59(135,24)       1.48(124,24)        1.41(352,24)        1.27(117,24)        1.21(128,24)
   -173.     2410.    502.      1.52( 62,24)       1.26(140,24)        1.13( 90,24)        1.12(115,24)        1.04(114,24)
   -173.     4810.    609.      0.51(114,24)       0.20( 29,24)        0.20( 41,24)        0.18( 62,24)        0.18(120,24)
     27.    -2390.    366.      0.38(124,24)       0.34(113,24)        0.34( 97,24)        0.33(  3,24)        0.30(221,24)
     27.    -1390.    366.      0.85(352,24)       0.82( 97,24)        0.76(135,24)        0.74(124,24)        0.56(113,24)
     27.     -590.    384.      1.50(124,24)       1.17(135,24)        1.17(117,24)        1.06(146,24)        1.04(128,24)
     27.     -390.    392.      2.09(124,24)       1.58(146,24)        1.54(135,24)        1.40(117,24)        1.40(150,24)
     27.      610.    293.      3.08(133,24)       2.66( 73,24)        2.66(109,24)        2.65(134,24)        2.62( 70,24)
     27.     1610.    502.      2.84(134,24)       2.70(122,24)        2.67( 89,24)        2.64(121,24)        2.37(104,24)
     27.     2410.    428.      1.58(115,24)       1.13(140,24)        1.06( 90,24)        0.97( 62,24)        0.97(133,24)
     27.     2610.    489.      1.09( 62,24)       0.99( 90,24)        0.98(140,24)        0.94(115,24)        0.87(133,24)
     27.     3610.    555.      0.55( 62,24)       0.41( 97,24)        0.37(114,24)        0.36(109,24)        0.36(  3,24)
     27.     4610.    605.      0.29(114,24)       0.21( 63,24)        0.20(366,24)        0.19(  3,24)        0.19( 45,24)
     27.     4810.    609.      0.34(114,24)       0.21(  3,24)        0.19( 29,24)        0.19( 45,24)        0.18(366,24)
     27.     5610.    487.      0.37(114,24)       0.24(285,24)        0.21( 86,24)        0.20(172,24)        0.19(109,24)
    227.     -590.    373.      1.48(124,24)       1.45(146,24)        1.30(150,24)        1.20(137,24)        1.18(168,24)
    227.     2410.    426.      1.29(140,24)       1.05( 91,24)        1.00(115,24)        0.94(134,24)        0.85( 62,24)
    227.     4810.    608.      0.21( 63,24)       0.21( 45,24)        0.20(108,24)        0.20(366,24)        0.20( 97,24)
    427.     -790.    365.      1.25(146,24)       1.21(150,24)        1.19(114,24)        1.11(168,24)        1.07(147,24)
    427.     -590.    366.      1.76(150,24)       1.65(126,24)        1.58(137,24)        1.41(147,24)        1.37(168,24)
    427.     2410.    424.      1.35(134,24)       1.07( 91,24)        1.02(140,24)        1.00(115,24)        0.97( 62,24)
    427.     4810.    575.      0.24( 78,24)       0.24( 62,24)        0.23( 97,24)        0.23(108,24)        0.20( 63,24)
    627.     -790.    360.      1.51(150,24)       1.37(126,24)        1.28(137,24)        1.19(168,24)        1.18(147,24)
    627.     2410.    408.      1.47(134,24)       1.19(120,24)        1.00( 62,24)        0.84(115,24)        0.83(148,24)
    627.     4810.    548.      0.31( 62,24)       0.26(107,24)        0.23( 63,24)        0.21(123,24)        0.21(108,24)
    827.     -790.    355.      1.82(126,24)       1.62(137,24)        1.53(150,24)        1.38(147,24)        1.29(146,24)
    827.     2410.    372.      1.33(134,24)       1.25(120,24)        0.94(148,24)        0.88(150,24)        0.83( 92,24)
    827.     4810.    563.      0.36(107,24)       0.35( 62,24)        0.27( 63,24)        0.24( 86,24)        0.23(  3,24)
   1027.    -2390.    339.      0.50(135,24)       0.46(124,24)        0.41(363,24)        0.36(168,24)        0.33(117,24)
   1027.    -1390.    346.      0.96(150,24)       0.83(168,24)        0.76(126,24)        0.76(147,24)        0.64(137,24)
   1027.     -790.    350.      1.73(126,24)       1.60(150,24)        1.51(152,24)        1.48(137,24)        1.43( 98,24)
   1027.     -390.    351.      1.85( 98,24)       1.61(152,24)        1.52(114,24)        1.43( 85,24)        1.34(151,24)
   1027.      610.    320.      2.20(149,24)       1.88( 89,24)        1.73( 95,24)        1.61(139,24)        1.56(140,24)
   1027.     1610.    398.      4.17( 70,24)       4.11(218,24)        3.83(122,24)        3.12(123,24)        3.05( 96,24)
   1027.     2410.    363.      1.09(120,24)       1.06(134,24)        0.97(150,24)        0.85( 92,24)        0.73( 45,24)
   1027.     2610.    365.      0.99(134,24)       0.99(120,24)        0.84(150,24)        0.84( 86,24)        0.79( 62,24)
   1027.     3610.    422.      0.55(107,24)       0.50( 86,24)        0.49( 93,24)        0.46(115,24)        0.44( 92,24)
   1027.     4610.    541.      0.33( 62,24)       0.33( 81,24)        0.31(107,24)        0.29( 90,24)        0.29( 63,24)
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                                                                                                   POSTZ - PAGE NO.   6


                                        HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                 HIGHEST FIVE CONCENTRATIONS
     METERS                                            VALUE(DAY,ENDING HOUR)

    X           Y      ELEV.        HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
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   1027.     4810.    548.      0.33( 62,24)       0.30( 81,24)        0.28( 63,24)        0.27(107,24)        0.24(  3,24)
   1027.     5610.    600.      0.26( 62,24)       0.21( 63,24)        0.21(113,24)        0.16(107,24)        0.14( 29,24)
   1227.     -790.    344.      1.51(152,24)       1.27(137,24)        1.26(150,24)        1.21(126,24)        1.21( 98,24)
   1227.     2410.    355.      1.12( 86,24)       0.93(107,24)        0.92( 93,24)        0.90( 63,24)        0.87(134,24)
   1227.     4810.    585.      0.29( 63,24)       0.28( 62,24)        0.23(133,24)        0.23(  3,24)        0.21( 92,24)
   1427.     -990.    337.      1.33(152,24)       1.13( 98,24)        1.11(137,24)        1.02(126,24)        1.02(150,24)
   1427.     -790.    338.      1.32( 98,24)       1.23(152,24)        1.04( 97,24)        0.89(119,24)        0.89( 94,24)
   1427.     2410.    346.      1.15( 63,24)       0.82(121,24)        0.74(134,24)        0.73(104,24)        0.67( 45,24)
   1427.     4810.    588.      0.34( 63,24)       0.26( 62,24)        0.26(133,24)        0.22(104,24)        0.19( 92,24)
   1627.    -1190.    331.      1.26(152,24)       1.08( 98,24)        0.97(137,24)        0.89(126,24)        0.84(150,24)
   1627.     -990.    332.      1.24( 98,24)       1.16(152,24)        0.95( 97,24)        0.93(136,24)        0.87(124,24)
   1627.     1610.    331.      1.23(144,24)       1.21( 41,24)        1.19(115,24)        1.17(145,24)        1.17( 91,24)
   1627.     1810.    331.      1.46(122,24)       1.24( 93,24)        1.10( 41,24)        1.06(100,24)        1.04( 89,24)
   1627.     2010.    332.      1.41( 41,24)       1.27(122,24)        1.18( 84,24)        1.18(114,24)        1.06( 63,24)
   1627.     2210.    333.      1.23( 41,24)       1.07(115,24)        1.02(121,24)        1.00( 84,24)        0.99( 63,24)
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      1627.      2410.    337.       1.04( 63,24)       0.96( 41,24)       0.89(121,24)       0.83(115,24)       0.77(104,24)
      1627.      4810.    532.       0.39( 63,24)       0.28( 62,24)       0.26( 41,24)       0.21(133,24)       0.21( 90,24)
      1627.      5010.    533.       0.36( 63,24)       0.24( 62,24)       0.24( 41,24)       0.23( 90,24)       0.23(133,24)
      1827.     -1390.    325.       1.18(152,24)       1.00( 98,24)       0.90(124,24)       0.90(137,24)       0.80(151,24)
      1827.     -1190.    326.       1.13(152,24)       1.02( 98,24)       0.90(124,24)       0.77(135,24)       0.77( 97,24)
      1827.      1610.    321.       1.57(115,24)       1.36(150,24)       1.23( 29,24)       1.18(153,24)       1.09(114,24)
      1827.      5010.    486.       0.35( 63,24)       0.26(172,24)       0.26( 62,24)       0.25( 41,24)       0.23( 81,24)
      2027.     -2390.    309.       0.63(150,24)       0.61(124,24)       0.54(126,24)       0.53(168,24)       0.49(147,24)
      2027.     -1390.    320.       0.94(152,24)       0.87( 98,24)       0.78(135,24)       0.72( 97,24)       0.71(137,24)
      2027.      -390.    322.       1.42( 70,24)       1.24( 73,24)       1.22(133,24)       1.18(129,24)       1.10(109,24)
      2027.       610.    317.       5.66( 96,24)       5.06(139,24)       4.97( 94,24)       4.93(218,24)       4.57(140,24)
      2027.      1410.    313.       4.04(115,24)       3.17(114,24)       2.11( 92,24)       1.74( 62,24)       1.69(104,24)
      2037.      1231.    311.       8.84(115,24)*      5.69(114,24)       4.33(116,24)       3.96( 62,24)       3.69(134,24)
      2027.      1610.    312.       2.21(115,24)       1.79(114,24)       1.12(144,24)       1.05( 70,24)       1.05( 81,24)
      2027.      2610.    327.       0.69(115,24)       0.65(121,24)       0.60( 63,24)       0.58(104,24)       0.56( 41,24)
      2027.      3610.    342.       0.53(114,24)       0.50(134,24)       0.50(115,24)       0.41( 81,24)       0.40( 62,24)
      2027.      4610.    440.       0.40(114,24)       0.29(115,24)       0.28( 62,24)       0.27( 81,24)       0.27(172,24)
      2027.      5010.    469.       0.30(114,24)       0.29(115,24)       0.26( 62,24)       0.26( 63,24)       0.26(172,24)
      2027.      5610.    515.       0.26( 81,24)       0.23( 63,24)       0.19( 62,24)       0.19( 90,24)       0.19( 41,24)
      2227.     -1590.    313.       0.80( 98,24)       0.77(152,24)       0.70( 97,24)       0.67(137,24)       0.65(135,24)
      2227.       610.    311.       5.36(135,24)       5.04(150,24)       5.03(125,24)       4.98(127,24)       4.92(146,24)
      2227.       810.    310.       5.19(115,24)       4.10(134,24)       3.80(114,24)       3.22(150,24)       3.19(146,24)
      2227.      1210.    305.       3.70(115,24)       2.79(134,24)       2.40(122,24)       2.32( 89,24)       2.23(120,24)
      2227.      1410.    305.       2.68(115,24)       1.53(134,24)       1.38( 62,24)       1.33(114,24)       1.22( 50,24)
      2227.      5010.    438.       0.51(114,24)       0.29(115,24)       0.25(172,24)       0.25( 62,24)       0.21( 81,24)
      2427.     -1590.    309.       0.81(124,24)       0.74( 98,24)       0.74(136,24)       0.71(152,24)       0.66( 97,24)
      2427.       410.    307.       3.21(134,24)       3.18(150,24)       2.48(147,24)       2.47(123,24)       2.45(127,24)
      2427.       610.    304.       3.33(134,24)       2.83(123,24)       2.64(115,24)       2.57(150,24)       2.53(133,24)
      2427.       810.    305.       2.35(115,24)       2.34(133,24)       2.33(134,24)       2.27(123,24)       2.08( 70,24)
      2427.      1210.    305.       2.55( 89,24)       2.31(115,24)       1.54(116,24)       1.45( 88,24)       1.38( 90,24)
      2427.      5010.    426.       0.44(114,24)       0.36(115,24)       0.24(172,24)       0.23( 62,24)       0.19(285,24)
      2627.     -1590.    304.       0.75(152,24)       0.62(136,24)       0.58(130,24)       0.57(119,24)       0.57(170,24)
      2627.     -1390.    304.       0.66(152,24)       0.56(136,24)       0.55(170,24)       0.54(168,24)       0.53(150,24)
      2627.      -390.    305.       1.60(135,24)       1.25(133,24)       1.17(146,24)       1.15(153,24)       1.08(124,24)
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                                         HIGH FIVE TABLE FOR    24 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                       HIGHEST FIVE CONCENTRATIONS
      METERS                                                  VALUE(DAY,ENDING HOUR)

    X            Y        ELEV.         HIGHEST           2ND HIGH           3RD HIGH           4TH HIGH           5TH HIGH
--------------------------------------------------------------------------------------------------------------------------------
      2627.      -190.    304.       2.02(150,24)       1.91(126,24)       1.90(146,24)       1.84(147,24)       1.83(137,24)
      2627.        10.    305.       2.21(150,24)       2.04(134,24)       1.85(147,24)       1.81(126,24)       1.77(137,24)
      2627.       210.    305.       2.00(150,24)       1.96(127,24)       1.92(133,24)       1.90(147,24)       1.82(152,24)
      2627.       410.    305.       1.81(134,24)       1.79(150,24)       1.71( 95,24)       1.69(119,24)       1.64(149,24)
      2627.       610.    305.       1.66(123,24)       1.65(134,24)       1.36( 99,24)       1.35( 70,24)       1.33(133,24)
      2627.       810.    305.       1.70( 99,24)       1.53(134,24)       1.41(110,24)       1.30(123,24)       1.27(103,24)
      2627.      1010.    305.       1.79( 89,24)       1.72(115,24)       1.64( 99,24)       1.12(141,24)       1.11(100,24)
      2627.      1210.    305.       1.45( 89,24)       1.35(122,24)       1.19( 99,24)       1.17(115,24)       1.10( 88,24)
      2262.       433.    311.       7.35(135,24)       7.25(137,24)*      7.19(150,24)       6.79(134,24)       6.33(114,24)
      2627.      5010.    380.       0.46(115,24)       0.30(114,24)       0.24(172,24)       0.23(109,24)       0.20( 62,24)
      2827.     -1390.    301.       0.65(138,24)       0.62(137,24)       0.60( 97,24)       0.57(170,24)       0.57(148,24)
      2827.     -1190.    302.       0.80(135,24)       0.73(138,24)       0.66(137,24)       0.66( 97,24)       0.63(170,24)
      2827.      -990.    302.       0.84(135,24)       0.73(138,24)       0.66(128,24)       0.64(109,24)       0.64(117,24)
      2827.      -790.    302.       0.88(135,24)       0.88( 87,24)       0.87(128,24)       0.83( 70,24)       0.69(117,24)
      2827.      -590.    303.       1.10(146,24)       1.05(133,24)       0.84(153,24)       0.84(127,24)       0.83(128,24)
      2827.      -390.    303.       1.43(150,24)       1.37(146,24)       1.36(126,24)       1.25(147,24)       1.24(137,24)
      2827.      -190.    303.       1.68(150,24)       1.56(147,24)       1.43(137,24)       1.39(126,24)       1.36(152,24)
      2827.        10.    303.       1.43(152,24)       1.40(150,24)       1.37(151,24)       1.33(125,24)       1.32(137,24)
      2827.      5010.    358.       0.43(115,24)       0.33(114,24)       0.25( 92,24)       0.22(172,24)       0.22(109,24)
      3027.     -2390.    297.       0.57( 98,24)       0.54(137,24)       0.50(170,24)       0.49(148,24)       0.48(152,24)
      3027.     -1390.    298.       0.68(135,24)       0.63(117,24)       0.61(170,24)       0.58(138,24)       0.54(168,24)
      3027.      -390.    300.       1.31(150,24)       1.18(147,24)       1.15(137,24)       1.14(126,24)       1.12(151,24)
      3027.       610.    301.       1.02( 99,24)       0.98( 89,24)       0.94(110,24)       0.91(100,24)       0.86(102,24)
      3027.      1610.    302.       0.80( 89,24)       0.73(115,24)       0.66(134,24)       0.65(144,24)       0.58( 54,24)
      3027.      2610.    303.       0.75(115,24)       0.47( 90,24)       0.42( 62,24)       0.35(122,24)       0.32(215,24)
      3027.      3610.    305.       0.60(115,24)       0.51( 62,24)       0.36(116,24)       0.30(114,24)       0.30( 90,24)
      3027.      4610.    333.       0.47(115,24)       0.26(108,24)       0.26(116,24)       0.24( 62,24)       0.23(134,24)
      3027.      5010.    348.       0.46(115,24)       0.27(114,24)       0.25( 92,24)       0.24(108,24)       0.21(172,24)
      3027.      5610.    372.       0.44(115,24)       0.29(114,24)       0.24( 92,24)       0.21(172,24)       0.19(110,24)
      3227.      5010.    338.       0.38(115,24)       0.26(108,24)       0.22(116,24)       0.20( 62,24)       0.19(172,24)
      3227.      5210.    345.       0.38(115,24)       0.26(108,24)       0.20(172,24)       0.19( 92,24)       0.18(351,24)
      3227.      5610.    362.       0.46(115,24)       0.24( 92,24)       0.23(114,24)       0.21(172,24)       0.18(108,24)
      3227.      6010.    373.       0.45(115,24)       0.26(114,24)       0.23( 92,24)       0.20(172,24)       0.16(173,24)

 * - DENOTES PEAK VALUE
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                                   HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
      METERS                                              VALUE(DAY,ENDING HOUR)

    X          Y        ELEV.        HIGHEST         2ND HIGH         3RD HIGH         4TH HIGH         5TH HIGH
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   -5973.     -2390.     798.        0.01(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -5973.     -1390.     793.        0.01(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -5973.      -390.     781.        0.01(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -5973.       610.     852.        0.02(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -5973.      1610.     731.        0.04(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -5973.      2610.     730.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -5973.      3610.     728.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -5973.      4610.     747.        0.02(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -5973.      5610.     625.        0.02(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4973.     -2390.     797.        0.01(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4973.     -1390.     731.        0.02(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4973.      -390.     652.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4973.      1610.     771.        0.05(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4973.      2610.     792.        0.04(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4973.      3610.     904.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4973.      4610.     858.        0.02(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4973.      5610.     570.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4773.       410.     646.        0.17(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4773.       610.     669.        0.21(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4773.       810.     666.        0.15(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4773.      1010.     695.        0.11(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4773.      1210.     730.        0.08(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4773.      1210.     730.        0.08(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4573.       410.     633.        0.38(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4573.      1210.     722.        0.08(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4573.      4810.     853.        0.02(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4373.        10.     609.        0.17(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4373.       210.     554.        0.05(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4373.       410.     583.        0.25(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4373.      1410.     694.        0.09(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4373.      1610.     756.        0.07(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4373.      1610.     756.        0.07(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4373.      4810.     856.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4173.        10.     553.        0.09(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4173.      1610.     787.        0.08(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -4173.      4810.     828.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.     -2390.     767.        0.02(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.     -1390.     732.        0.04(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.      -390.     548.        0.09(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.        10.     549.        0.22(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.       610.     722.        0.27(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.      1610.     773.        0.09(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.      2610.     875.        0.05(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.      3610.     914.        0.04(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.      4610.     954.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.      4810.     838.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3973.      5610.     686.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3773.        10.     549.        0.16(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3773.      1610.     755.        0.08(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
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                                   HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                    HIGHEST FIVE CONCENTRATIONS
      METERS                                              VALUE(DAY,ENDING HOUR)

    X          Y        ELEV.        HIGHEST         2ND HIGH         3RD HIGH         4TH HIGH         5TH HIGH
-----------------------------------------------------------------------------------------------------------------------
   -3773.      1810.     792.        0.07(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3773.      2010.     824.        0.06(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3773.      4810.     839.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3573.        10.     549.        0.13(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3573.      2010.     848.        0.06(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3573.      4810.     852.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3373.        10.     549.        0.11(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3373.      2010.     799.        0.07(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
   -3373.      4810.     831.        0.03(  4,24)     0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)    0.00(  0,  0)
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  -3273.      2010.     787.         0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -3273.      2210.     841.         0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -3273.      2410.     862.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -3173.        10.     567.         0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -3173.      2410.     841.         0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -3173.      4810.     806.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.     -2390.     661.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.     -1390.     613.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.      -390.     609.         0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.        10.     601.         0.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.       610.     579.         0.39(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.      1610.     823.         0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.      2410.     784.         0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.      2610.     786.         0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.      3610.     865.         0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.      4610.     770.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.      4810.     747.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2973.      5610.     642.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2773.        10.     609.         0.25(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2773.      2410.     731.         0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2773.      4810.     724.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2573.        10.     587.         0.37(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2573.      2410.     732.         0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2573.      4810.     713.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2373.        10.     574.         0.69(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2373.      2410.     726.         0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2373.      4810.     700.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2173.        10.     564.         0.64(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2173.      2410.     675.         0.13(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -2173.      4810.     675.         0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.     -2390.     487.         0.05(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.     -1390.     522.         0.07(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.      -390.     487.         0.18(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.      -190.     526.         0.28(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.        10.     549.         0.38(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.       210.     549.         0.47(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.       410.     547.         0.67(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.       610.     479.         0.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.      1610.     768.         0.27(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.      2410.     675.         0.13(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
1                                                                                                POSTZ - PAGE NO.  10


                                             HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                                             HIGHEST FIVE CONCENTRATIONS
     METERS                                                       VALUE(DAY,ENDING HOUR)

   X            Y       ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
--------------------------------------------------------------------------------------------------------------------------------
  -1973.      2610.     799.         0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.      3610.     696.         0.06(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.      4610.     628.         0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.      4810.     646.         0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1973.      5610.     597.         0.03(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1773.      -790.     529.         0.13(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1773.      -590.     497.         0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1773.       210.     539.         0.31(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1773.       410.     491.         0.33(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1773.      2410.     668.         0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1773.      4810.     609.         0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.     -1190.     433.         0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.      -990.     459.         0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.      -790.     482.         0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.      -590.     487.         0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.      -390.     465.         0.14(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.      -190.     475.         0.16(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.        10.     505.         0.22(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.       210.     495.         0.24(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.       410.     482.         0.30(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.      2410.     648.         0.15(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1573.      4810.     609.         0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1373.     -1190.     427.         0.08(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1373.      2410.     609.         0.17(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1373.      4810.     575.         0.04(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1173.     -1190.     423.         0.09(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1173.      -990.     423.         0.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1173.      -790.     424.         0.11(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  -1173.      -590.     425.         0.12(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
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   -1173.      -390.    425.       0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1173.      2410.    610.       0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
   -1173.      4810.    555.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.     -2390.    407.       0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.     -1390.    411.       0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      -390.    421.       0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      -190.    423.       0.20(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.       610.    387.       1.22(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      1610.    594.       0.82(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      2410.    610.       0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      2610.    609.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      3610.    609.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      4610.    551.       0.05(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      4810.    549.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -973.      5610.    549.       0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      -190.    420.       0.24(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      2010.    603.       0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      2210.    610.       0.23(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      2410.    610.       0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -773.      4810.    549.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
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                                     HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                          HIGHEST FIVE CONCENTRATIONS
       METERS                                                   VALUE(DAY,ENDING HOUR)

     X            Y        ELEV.        HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
------------------------------------------------------------------------------------------------------------------------
    -573.      -190.    417.       0.30(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -573.      2010.    593.       0.27(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -573.      2210.    609.       0.21(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -573.      2410.    610.       0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -573.      4810.    572.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      -390.    410.       0.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      -190.    418.       0.33(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      2010.    564.       0.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      2210.    594.       0.20(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      2410.    599.       0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -373.      4810.    598.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -173.      -390.    402.       0.28(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -173.      2410.    502.       0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -173.      4810.    609.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.     -2390.    366.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.     -1390.    366.       0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      -590.    384.       0.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      -390.    392.       0.34(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.       610.    293.       0.61(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      1610.    502.       0.51(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      2410.    428.       0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      2610.    489.       0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      3610.    555.       0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      4610.    605.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      4810.    609.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
      27.      5610.    487.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     227.      -590.    373.       0.27(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     227.      2410.    426.       0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     227.      4810.    608.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     427.      -790.    365.       0.23(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     427.      -590.    366.       0.27(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     427.      2410.    424.       0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     427.      4810.    575.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     627.      -790.    360.       0.23(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     627.      2410.    408.       0.19(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     627.      4810.    548.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     827.      -790.    355.       0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     827.      2410.    372.       0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     827.      4810.    563.       0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.     -2390.    339.       0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.     -1390.    346.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      -790.    350.       0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      -390.    351.       0.33(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.       610.    320.       0.46(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      1610.    398.       0.67(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      2410.    363.       0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      2610.    365.       0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      3610.    422.       0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    1027.      4610.    541.       0.05(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
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                                  HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                HIGHEST FIVE CONCENTRATIONS
      METERS                                          VALUE(DAY,ENDING HOUR)

   X          Y       ELEV.          HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-------------------------------------------------------------------------------------------------------------------------
    1027.      4810.    548.         0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1027.      5610.    600.         0.03(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1227.      -790.    344.         0.25(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1227.      2410.    355.         0.17(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1227.      4810.    585.         0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1427.      -990.    337.         0.22(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1427.      -790.    338.         0.24(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1427.      2410.    346.         0.16(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1427.      4810.    588.         0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1627.     -1190.    331.         0.20(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1627.      -990.    332.         0.22(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1627.      1610.    331.         0.39(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1627.      1810.    331.         0.33(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1627.      2010.    332.         0.24(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1627.      2210.    333.         0.19(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1627.      2410.    337.         0.16(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1627.      4810.    532.         0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1627.      5010.    533.         0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1827.     -1390.    325.         0.18(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1827.     -1190.    326.         0.20(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1827.      1610.    321.         0.32(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    1827.      5010.    486.         0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.     -2390.    309.         0.10(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.     -1390.    320.         0.18(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.      -390.    322.         0.37(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.       610.    317.         1.37(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.      1410.    313.         0.42(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2037.      1231.    311.         1.25(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.      1610.    312.         0.29(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.      2610.    327.         0.11(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.      3610.    342.         0.07(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.      4610.    440.         0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.      5010.    469.         0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2027.      5610.    515.         0.03(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2227.     -1590.    313.         0.16(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2227.       610.    311.         1.55(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2227.       810.    310.         1.10(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2227.      1210.    305.         0.56(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2227.      1410.    305.         0.32(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2227.      5010.    438.         0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2427.     -1590.    309.         0.16(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2427.       410.    307.         0.80(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2427.       610.    304.         0.75(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2427.       810.    305.         0.62(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2427.      1210.    305.         0.38(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2427.      5010.    426.         0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.     -1590.    304.         0.16(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.     -1390.    304.         0.17(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.      -390.    305.         0.29(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
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                                  HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                HIGHEST FIVE CONCENTRATIONS
      METERS                                          VALUE(DAY,ENDING HOUR)

   X          Y       ELEV.          HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-------------------------------------------------------------------------------------------------------------------------
    2627.      -190.    304.         0.39(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.        10.    305.         0.47(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.       210.    305.         0.53(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.       410.    305.         0.52(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.       610.    305.         0.46(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.       810.    305.         0.40(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.      1010.    305.         0.35(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2627.      1210.    305.         0.29(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    2262.       433.    311.         1.82(  4,24)*    0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   2627.      5010.    380.       0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2827.     -1390.    301.       0.17(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2827.     -1190.    302.       0.18(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2827.      -990.    302.       0.19(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2827.      -790.    302.       0.21(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2827.      -590.    303.       0.23(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2827.      -390.    303.       0.28(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2827.      -190.    303.       0.33(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2827.        10.    303.       0.35(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   2827.      5010.    358.       0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.     -2390.    297.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.     -1390.    298.       0.16(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.      -390.    300.       0.25(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.       610.    301.       0.27(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.      1610.    302.       0.16(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.      2610.    303.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.      3610.    305.       0.06(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.      4610.    333.       0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.      5010.    348.       0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3027.      5610.    372.       0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3227.      5010.    338.       0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3227.      5210.    345.       0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3227.      5610.    362.       0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   3227.      6010.    373.       0.03(  4,24)       0.00(  0, 0)*      0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)

* - DENOTES PEAK VALUE
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          POSTZ               (DATED 86224)
1                                                                              POSTZ - PAGE NO.   1


                                 POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

          POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5 OUTPUT - SOX - 04/20/92 - MPV
          SHORTZ RUN TITLE:  ********************************************************************************

          ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                   0
          ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                             0
          ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                               0
          ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)    0
          ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)              0

      1-HOUR AVERAGE ANALYSIS:
          ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                  0
          ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                  0
          ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                              0

      3-HOUR AVERAGE ANALYSIS:
          ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                  0
          ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                             0

      8-HOUR AVERAGE ANALYSIS:
          ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                             0

      24-HOUR AVERAGE ANALYSIS:
          ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                 1
          ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                             0

      ANNUAL AVERAGE ANALYSIS:
          ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                 1
          ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                             0

      USER-SPECIFIED AVERAGING TIME ANALYSIS
          ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                 0
          ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                             0

          ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                      0
          ISW(25) CALMS POLICY (1=YES,0=NO)                                          0


          JULIAN DAY FOR START OF ANALYSIS                                           1
          YEAR FOR START OF ANALYSIS                                                91
          JULIAN DAY FOR END OF ANALYSIS                                             5
          YEAR FOR END OF ANALYSIS                                                  92
1                                                                              POSTZ - PAGE NO.   2


                                     HIGH FIVE TABLE FOR    24 HOUR AVERAGES

 RECEPTOR COORDINATES                                  HIGHEST FIVE CONCENTRATIONS
      METERS                                            VALUE(DAY,ENDING HOUR)

   X            Y        ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
----------------------------------------------------------------------------------------------------------------------
    2127.      1210.     308.      3.69(134,24)      3.61(115,24)      2.58( 89,24)      2.57(106,24)      2.42(120,24)
    2227.      1210.     305.      3.70(115,24)      2.79(134,24)      2.40(122,24)      2.32( 89,24)      2.23(120,24)
    2327.      1210.     305.      2.49(115,24)      2.31( 89,24)      1.95(134,24)      1.86(106,24)      1.75(144,24)
    2427.      1210.     305.      2.55( 89,24)      2.31(115,24)      1.54(116,24)      1.45( 88,24)      1.38( 90,24)
    2527.      1210.     305.      1.74(115,24)      1.73( 89,24)      1.34(122,24)      1.20( 99,24)      1.08(215,24)
    2627.      1210.     305.      1.45( 89,24)      1.35(122,24)      1.19( 99,24)      1.17(115,24)      1.10( 88,24)
    2037.      1231.     311.      8.84(115,24)*     5.69(114,24)      4.33(116,24)      3.96( 62,24)      3.69(134,24)
    2027.      1310.     313.      6.71(115,24)      4.74(114,24)      3.25( 92,24)      3.17( 62,24)      2.97(116,24)
    2127.      1310.     307.      4.64(115,24)      2.27( 62,24)      2.21(134,24)      2.13(114,24)      1.96(116,24)
    2227.      1310.     305.      3.40(115,24)      2.18(134,24)      1.75( 62,24)      1.64( 92,24)      1.56(116,24)
    2327.      1310.     305.      2.84(115,24)      2.06(134,24)      1.81(122,24)      1.72(120,24)      1.62( 62,24)
    2427.      1310.     305.      1.79(115,24)      1.77(134,24)      1.66( 89,24)      1.29(122,24)      1.23(120,24)
    2527.      1310.     305.      2.18(115,24)      1.65( 89,24)      1.23( 70,24)      1.23(122,24)      1.20(134,24)
    2627.      1310.     305.      1.90( 89,24)      1.29(115,24)      1.11( 88,24)      1.06(122,24)      1.05(104,24)
    2027.      1410.     313.      4.04(115,24)      3.17(114,24)      2.11( 92,24)      1.74( 62,24)      1.69(104,24)
    2127.     1410.    308.      4.88(115,24)      2.73(114,24)      2.26( 62,24)      2.15(116,24)      1.71( 92,24)
    2227.     1410.    305.      2.68(115,24)      1.53(134,24)      1.38( 62,24)      1.33(114,24)      1.22( 50,24)
    2327.     1410.    305.      2.95(115,24)      1.73(134,24)      1.51( 62,24)      1.49(116,24)      1.31(114,24)
    2427.     1410.    305.      1.98(115,24)      1.65(134,24)      1.29(120,24)      1.17(106,24)      1.16( 89,24)
    2527.     1410.    305.      1.74(115,24)      1.42(134,24)      1.25( 89,24)      1.14(120,24)      1.12(122,24)
    2627.     1410.    305.      1.42(115,24)      1.24( 89,24)      1.12(134,24)      1.00(122,24)      0.87( 90,24)
    2327.      410.    310.      5.54(150,24)      4.98(137,24)      4.89(115,24)      4.71(134,24)      4.63(127,24)
    2427.      410.    307.      3.21(134,24)      3.18(150,24)      2.48(147,24)      2.47(123,24)      2.45(127,24)
    2527.      410.    305.      2.35(151,24)      2.34(127,24)      2.31(150,24)      2.21( 98,24)      2.18(134,24)
    2627.      410.    305.      1.81(134,24)      1.79(150,24)      1.71( 95,24)      1.69(119,24)      1.64(149,24)
    2262.      433.    311.      7.35(135,24)      7.25(137,24)*     7.19(150,24)      6.79(134,24)      6.33(114,24)
    2262.      510.    312.      5.74(134,24)      4.92(135,24)      4.65(133,24)      4.52(150,24)      4.45(114,24)
    2327.      510.    309.      4.71(115,24)      4.23(134,24)      3.93(150,24)      3.67(114,24)      3.63(146,24)
    2427.      510.    304.      3.18(150,24)      3.06(127,24)      2.92(151,24)      2.72(134,24)      2.72(152,24)
    2527.      510.    304.      2.40(133,24)      2.35(134,24)      2.25(150,24)      2.11(123,24)      1.94(151,24)
    2627.      510.    305.      1.96(134,24)      1.80(123,24)      1.74(133,24)      1.63(149,24)      1.61(138,24)
    2227.      610.    311.      5.36(135,24)      5.04(150,24)      5.03(125,24)      4.98(127,24)      4.92(146,24)
    2327.      610.    308.      4.32(134,24)      4.17(133,24)      4.15(150,24)      4.14(127,24)      3.91(151,24)
    2427.      610.    304.      3.33(134,24)      2.83(123,24)      2.64(115,24)      2.57(150,24)      2.53(133,24)
    2527.      610.    305.      2.18(134,24)      2.07(123,24)      1.82(149,24)      1.79(151,24)      1.76(133,24)
    2627.      610.    305.      1.66(123,24)      1.65(134,24)      1.36( 99,24)      1.35( 70,24)      1.33(133,24)
    2227.      710.    311.      5.90(150,24)      5.81(114,24)      5.43(115,24)      5.28(137,24)      5.21(134,24)
    2327.      710.    308.      3.39(134,24)      2.96(123,24)      2.91(133,24)      2.82(150,24)      2.71(109,24)
    2427.      710.    306.      2.93(115,24)      2.38(127,24)      2.29(134,24)      2.08(151,24)      2.06(133,24)
    2527.      710.    304.      2.04(134,24)      1.86(123,24)      1.73( 70,24)      1.72(133,24)      1.56(127,24)
    2627.      710.    305.      1.69(123,24)      1.67(134,24)      1.53(133,24)      1.52( 70,24)      1.43( 99,24)
    2227.      810.    310.      5.19(115,24)      4.10(134,24)      3.80(114,24)      3.22(150,24)      3.19(146,24)
    2327.      810.    307.      3.00(127,24)      2.92(115,24)      2.91(134,24)      2.75(133,24)      2.60(151,24)
    2427.      810.    305.      2.35(115,24)      2.34(133,24)      2.33(134,24)      2.27(123,24)      2.08( 70,24)
    2527.      810.    304.      1.96(115,24)      1.93(134,24)      1.79( 99,24)      1.77(123,24)      1.58(110,24)
    2627.      810.    305.      1.70( 99,24)      1.53(134,24)      1.41(110,24)      1.30(123,24)      1.27(103,24)

 * - DENOTES PEAK VALUE
1
                                                                                          POSTZ - PAGE NO.    3


                                          HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

 RECEPTOR COORDINATES
       METERS                                                     HIGHEST FIVE CONCENTRATIONS
                                                                   VALUE(DAY,ENDING HOUR)

      X              Y         ELEV.          HIGHEST            2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------
    2127.     1210.    308.      0.74(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2227.     1210.    305.      0.56(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2327.     1210.    305.      0.43(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2427.     1210.    305.      0.38(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2527.     1210.    305.      0.32(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2627.     1210.    305.      0.29(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2037.     1231.    311.      1.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2027.     1310.    313.      0.64(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2127.     1310.    307.      0.47(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2227.     1310.    305.      0.42(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2327.     1310.    305.      0.37(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2427.     1310.    305.      0.32(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2527.     1310.    305.      0.29(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2627.     1310.    305.      0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2027.     1410.    313.      0.42(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2127.     1410.    308.      0.38(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2227.     1410.    305.      0.32(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2327.     1410.    305.      0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2427.     1410.    305.      0.28(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2527.     1410.    305.      0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2627.     1410.    305.      0.24(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2327.      410.    310.      1.30(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2427.      410.    307.      0.80(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2527.      410.    305.      0.62(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2627.      410.    305.      0.52(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2262.      433.    311.      1.82(  4,24)*     0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2262.      510.    312.      1.54(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2327.      510.    309.      1.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2427.      510.    304.      0.76(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2527.      510.    304.      0.61(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2627.      510.    305.      0.49(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2227.      610.    311.      1.55(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2327.      610.    308.      1.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2427.      610.    304.      0.75(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2527.      610.    305.      0.56(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    2627.      610.    305.      0.46(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
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  2227.        710.    311.         1.46(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2327.        710.    308.         0.85(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2427.        710.    306.         0.67(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2527.        710.    304.         0.53(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2627.        710.    305.         0.44(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2227.        810.    310.         1.10(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2327.        810.    307.         0.80(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2427.        810.    305.         0.62(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2527.        810.    304.         0.49(  4,24)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)
  2627.        810.    305.         0.40(  4,24)        0.00(  0, 0)*       0.00(  0, 0)        0.00(  0, 0)        0.00(  0, 0)

* - DENOTES PEAK VALUE
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ATTACHMENT 8-3

SHORTZ MODEL INPUT
FOR THE HEALTH RISK ASSESSMENT

```
2EAGLE MTN - SHORTZ - RISK ASSESSMENT - COARSE GRID - UNIT IMPACTS

  00  00 278  12  24   0 370
      0   0  00        3   1   0
    -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4     -5973.4
    -5973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4     -4973.4
    -4973.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4773.4     -4573.4
    -4573.4     -4573.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4     -4373.4
    -4373.4     -4173.4     -4173.4     -4173.4     -3973.4     -3973.4     -3973.4     -3973.4
    -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3973.4     -3773.4
    -3773.4     -3773.4     -3773.4     -3773.4     -3573.4     -3573.4     -3573.4     -3373.4
    -3373.4     -3373.4     -3273.4     -3273.4     -3273.4     -3173.4     -3173.4     -3173.4
    -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4     -2973.4
    -2973.4     -2973.4     -2973.4     -2973.4     -2773.4     -2773.4     -2773.4     -2573.4
    -2573.4     -2573.4     -2373.4     -2373.4     -2373.4     -2173.4     -2173.4     -2173.4
    -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4
    -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1973.4     -1773.4
    -1773.4     -1773.4     -1773.4     -1773.4     -1773.4     -1573.4     -1573.4     -1573.4
    -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4     -1573.4
    -1373.4     -1373.4     -1373.4     -1173.4     -1173.4     -1173.4     -1173.4     -1173.4
    -1173.4     -1173.4      -973.4      -973.4      -973.4      -973.4      -973.4      -973.4
     -973.4      -973.4      -973.4      -973.4      -973.4      -973.4      -773.4      -773.4
     -773.4      -773.4      -773.4      -573.4      -573.4      -573.4      -573.4      -573.4
     -373.4      -373.4      -373.4      -373.4      -373.4      -373.4      -173.4      -173.4
     -173.4        26.6        26.6        26.6        26.6        26.6        26.6        26.6
       26.6        26.6        26.6        26.6        26.6       226.6       226.6       226.6
      426.6       426.6       426.6       426.6       626.6       626.6       626.6       826.6
      826.6       826.6      1026.6      1026.6      1026.6      1026.6      1026.6      1026.6
     1026.6      1026.6      1026.6      1026.6      1026.6      1026.6      1226.6      1226.6
     1226.6      1426.6      1426.6      1426.6      1426.6      1626.6      1626.6      1626.6
     1626.6      1626.6      1626.6      1626.6      1626.6      1626.6      1826.6      1826.6
     1826.6      1826.6      2026.6      2026.6      2026.6      2026.6      2026.6      2037.0
     2026.6      2026.6      2026.6      2026.6      2026.6      2026.6      2226.6      2226.6
     2226.6      2226.6      2226.6      2226.6      2426.6      2426.6      2426.6      2426.6
     2426.6      2426.6      2626.6      2626.6      2626.6      2626.6      2626.6      2626.6
     2626.6      2626.6      2626.6      2626.6      2626.6      2262.0      2626.6      2826.6
     2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6      2826.6
     3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6      3026.6
     3026.6      3026.6      3226.6      3226.6      3226.6      3226.6
    -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
     5610.0     -2390.0     -1390.0      -390.0      1610.0      2610.0      3610.0      4610.0
     5610.0       410.0       610.0       810.0      1010.0      1210.0      1210.0       410.0
     1210.0      4810.0        10.0       210.0       410.0      1410.0      1610.0      1610.0
     4810.0        10.0      1610.0      4810.0     -2390.0     -1390.0      -390.0        10.0
      610.0      1610.0      2610.0      3610.0      4610.0      4810.0      5610.0        10.0
     1610.0      1810.0      2010.0      4810.0        10.0      2010.0      4810.0        10.0
     2010.0      4810.0      2010.0      2210.0      2410.0        10.0      2410.0      4810.0
    -2390.0     -1390.0      -390.0        10.0       610.0      1610.0      2410.0      2610.0
     3610.0      4610.0      4810.0      5610.0        10.0      2410.0      4810.0        10.0
     2410.0      4810.0        10.0      2410.0      4810.0        10.0      2410.0      4810.0
    -2390.0     -1390.0      -390.0      -190.0        10.0       210.0       410.0       610.0
     1610.0      2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0
     -590.0       210.0       410.0      2410.0      4810.0     -1190.0      -990.0      -790.0
     -590.0      -390.0      -190.0        10.0       210.0       410.0      2410.0      4810.0
    -1190.0      2410.0      4810.0     -1190.0      -990.0      -790.0      -590.0      -390.0
     2410.0      4810.0     -2390.0     -1390.0      -390.0      -190.0       610.0      1610.0
     2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -190.0      2010.0
     2210.0      2410.0      4810.0      -190.0      2010.0      2210.0      2410.0      4810.0
     -390.0      -190.0      2010.0      2210.0      2410.0      4810.0      -390.0      2410.0
     4810.0     -2390.0     -1390.0      -590.0      -390.0       610.0      1610.0      2410.0
     2610.0      3610.0      4610.0      4810.0      5610.0      -590.0      2410.0      4810.0
     -790.0      -590.0      2410.0      4810.0      -790.0      2410.0      4810.0      -790.0
     2410.0      4810.0     -2390.0     -1390.0      -790.0      -390.0       610.0      1610.0
     2410.0      2610.0      3610.0      4610.0      4810.0      5610.0      -790.0      2410.0
     4810.0      -990.0      -790.0      2410.0      4810.0     -1190.0      -990.0      1610.0
     1810.0      2010.0      2210.0      2410.0      4810.0      5010.0     -1390.0     -1190.0
     1610.0      5010.0     -2390.0     -1390.0      -390.0       610.0      1410.0      1231.0
     1610.0      2610.0      3610.0      4610.0      5010.0      5610.0     -1590.0       610.0
      810.0      1210.0      1410.0      5010.0     -1590.0       410.0       610.0       810.0
     1210.0      5010.0     -1590.0     -1390.0      -390.0      -190.0        10.0       210.0
      410.0       610.0       810.0      1010.0      1210.0       433.0      5010.0     -1390.0
    -1190.0      -990.0      -790.0      -590.0      -390.0      -190.0        10.0      5010.0
    -2390.0     -1390.0      -390.0       610.0      1610.0      2610.0      3610.0      4610.0
     5010.0      5610.0      5010.0      5210.0      5610.0      6010.0
      798.0       793.0       781.0       852.0       731.0       730.0       728.0       747.0
      625.0       797.0       731.0       652.0       771.0       792.0       904.0       858.0
      570.0       646.0       669.0       666.0       695.0       730.0       730.0       633.0
      722.0       853.0       609.0       554.0       583.0       694.0       756.0       756.0
      856.0       553.0       787.0       828.0       767.0       732.0       548.0       549.0
      722.4       773.0       875.0       914.0       954.0       838.0       686.0       549.0
     755.0     792.0     824.0     839.0     549.0     848.0     852.0     549.0
     799.0     831.0     787.0     841.0     862.0     567.0     841.0     806.0
     661.0     613.0     609.0     601.0     579.1     823.0     784.0     786.0
     865.0     770.0     747.0     642.0     609.0     731.0     724.0     587.0
     732.0     713.0     574.0     726.0     700.0     564.0     675.0     675.0
     487.0     522.0     487.0     526.0     549.0     549.0     547.0     478.5
     768.1     675.0     799.0     696.0     628.0     646.0     597.0     529.0
     497.0     539.0     491.0     668.0     609.0     433.0     459.0     482.0
     487.0     465.0     475.0     505.0     495.0     482.0     648.0     609.0
     427.0     609.0     575.0     423.0     423.0     424.0     425.0     425.0
     610.0     555.0     407.0     411.0     421.0     423.0     387.1     594.4
     610.0     609.0     609.0     551.0     549.0     549.0     420.0     603.0
     610.0     610.0     549.0     417.0     593.0     609.0     610.0     572.0
     410.0     418.0     564.0     594.0     599.0     598.0     402.0     502.0
     609.0     366.0     366.0     384.0     392.0     292.6     501.7     428.0
     489.0     555.0     605.0     609.0     487.0     373.0     426.0     608.0
     365.0     366.0     424.0     575.0     360.0     408.0     548.0     355.0
     372.0     563.0     339.0     346.0     350.0     351.0     320.0     397.8
     363.0     365.0     422.0     541.0     548.0     600.0     344.0     355.0
     585.0     337.0     338.0     346.0     588.0     331.0     332.0     331.0
     331.0     332.0     333.0     337.0     532.0     533.0     325.0     326.0
     321.0     486.0     309.0     320.0     322.0     317.0     313.0     310.9
     312.0     326.7     342.0     440.0     469.0     515.0     313.0     311.0
     310.0     305.0     305.0     438.0     309.0     307.0     304.0     305.0
     305.0     426.0     304.0     304.0     305.0     304.0     305.0     305.0
     305.0     305.0     305.0     305.0     305.0     310.9     380.0     301.0
     302.0     302.0     302.0     303.0     303.0     303.0     303.0     358.0
     297.0     298.0     300.0     301.0     302.0     303.0     305.0     333.0
     348.0     372.0     338.0     345.0     362.0     373.0
   .683            366.7
0006100     0.0050 -4234.   227.  15.24   579.  1158. 130.58        1.8288
0006200     0.0050 -4123.   185.  15.24   549.  1158. 130.58        1.8288
0006300     0.0050 -2562.   354.  15.24   479.  1158. 130.58        1.8288
0006400     0.0050 -2434.   371.  15.24   472.  1158. 130.58        1.8288
0006500     0.0050  1318.   152.  15.24   351.  1158. 130.58        1.8288
0006600     0.0050  1438.   169.  15.24   340.  1158. 130.58        1.8288
0006700     0.0050  1565.   573.  15.24   335.  1158. 130.58        1.8288
0006800     0.0050  1569.   733.  15.24   335.  1158. 130.58        1.8288
0018120    0.40068-1621.9 1432.7     2.  735.6 1164.2 1711.9     0.
0018220    0.41130-2878.7 1109.9     2.  735.6 1349.4 1516.1     0.
0018320    0.15825-3856.3  863.9     2.  716.3  605.9 1299.1     0.
0018420    0.02977-4357.7  652.2     2.  685.8  373.1  396.9    90.
```

ATTACHMENT 8-4

SHORTZ MODEL OUTPUT
FOR THE HEALTH RISK ASSESSMENT

```
           POSTZ              (DATED 86224)
1                                                                                                        POSTZ - PAGE NO.   1


                                              POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

                       POSTZ RUN TITLE:   EAGLE MTN - POSTZ HI5_OUTPUT - RISK - 04/27/92 - MPV
                       SHORTZ RUN TITLE:  ********************************************************************************

                       ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                         0
                       ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                                   0
                       ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                                     0
                       ISW(4) SPECIFY BACKGROUND CONCENTRATIONS (0=NO,1=UNIFORM,2=BY RECEPTOR)          0
                       ISW(5) SCALE CONCENTRATIONS FOR SPECIFIC SOURCES (1=YES,0=NO)                    0

                  1-HOUR AVERAGE ANALYSIS:
                       ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                       ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                        0
                       ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                    0

                  3-HOUR AVERAGE ANALYSIS:
                       ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                        0
                       ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                       0
                       ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                  8-HOUR AVERAGE ANALYSIS:
                       ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                       ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                       ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                  24-HOUR AVERAGE ANALYSIS:
                       ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                       ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                       ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                  ANNUAL AVERAGE ANALYSIS:
                       ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       1
                       ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                       ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                  USER-SPECIFIED AVERAGING TIME ANALYSIS
                       ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                       0
                       ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                                       0
                       ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                                   0

                       ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)                            0
                       ISW(25) CALMS POLICY (1=YES,0=NO)                                                0


                       JULIAN DAY FOR START OF ANALYSIS                                                 1
                       YEAR FOR START OF ANALYSIS                                                      91
                       JULIAN DAY FOR END OF ANALYSIS                                                   5
                       YEAR FOR END OF ANALYSIS                                                        92
1                                                                                                        POSTZ - PAGE NO.   2


                                                  HIGH FIVE TABLE FOR  8880 HOUR AVERAGES

     RECEPTOR COORDINATES                                         HIGHEST FIVE CONCENTRATIONS
           METERS                                                  VALUE(DAY,ENDING HOUR)

       X           Y       ELEV.          HIGHEST            2ND HIGH             3RD HIGH             4TH HIGH             5TH HIGH
-------------------------------------------------------------------------------------------------------------------------------------
     -5973.     -2390.    798.         0.00(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -5973.     -1390.    793.         0.00(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -5973.      -390.    781.         0.00(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -5973.       610.    852.         0.01(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -5973.      1610.    731.         0.02(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -5973.      2610.    730.         0.02(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -5973.      3610.    728.         0.02(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -5973.      4610.    747.         0.01(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -5973.      5610.    625.         0.01(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -4973.     -2390.    797.         0.00(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -4973.     -1390.    731.         0.01(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -4973.      -390.    652.         0.01(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -4973.      1610.    771.         0.04(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -4973.      2610.    792.         0.03(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
     -4973.      3610.    904.         0.02(  4,24)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)        0.00(  0,  0)
```

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   -4973.       4610.    858.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4973.       5610.    570.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4773.        410.    646.       0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4773.        610.    669.       0.05(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4773.        810.    666.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4773.       1010.    695.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4773.       1210.    730.       0.05(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4773.       1210.    730.       0.05(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4573.        410.    633.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4573.       1210.    722.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4573.       4810.    853.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4373.         10.    609.       0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4373.        210.    554.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4373.        410.    583.       0.23(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4373.       1410.    694.       0.12(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4373.       1610.    756.       0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4373.       1610.    756.       0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4373.       4810.    856.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4173.         10.    553.       0.06(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4173.       1610.    787.       0.13(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -4173.       4810.    828.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.      -2390.    767.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.      -1390.    732.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.       -390.    548.       0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.         10.    549.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.        610.    722.       0.59(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.       1610.    773.       0.17(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.       2610.    875.       0.04(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.       3610.    914.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.       4610.    954.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.       4810.    838.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3973.       5610.    686.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3773.         10.    549.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3773.       1610.    755.       0.20(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
1                                                                                                POSTZ - PAGE NO.   3


                                             HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                             HIGHEST FIVE CONCENTRATIONS
      METERS                                                       VALUE(DAY,ENDING HOUR)

     X           Y       ELEV.          HIGHEST            2ND HIGH            3RD HIGH            4TH HIGH            5TH HIGH
--------------------------------------------------------------------------------------------------------------------------------
   -3773.       1810.    792.       0.12(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3773.       2010.    824.       0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3773.       4810.    839.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3573.         10.    549.       0.13(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3573.       2010.    848.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3573.       4810.    852.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3373.         10.    549.       0.13(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3373.       2010.    799.       0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3373.       4810.    831.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3273.       2010.    787.       0.18(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3273.       2210.    841.       0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3273.       2410.    862.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3173.         10.    567.       0.13(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3173.       2410.    841.       0.08(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -3173.       4810.    806.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.      -2390.    661.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.      -1390.    613.       0.02(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.       -390.    609.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.         10.    601.       0.13(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.        610.    579.       0.82(  4,24)*      0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.       1610.    823.       0.49(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.       2410.    784.       0.09(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.       2610.    786.       0.07(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.       3610.    865.       0.03(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.       4610.    770.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.       4810.    747.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2973.       5610.    642.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2773.         10.    609.       0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2773.       2410.    731.       0.10(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2773.       4810.    724.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2573.         10.    587.       0.14(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2573.       2410.    732.       0.11(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2573.       4810.    713.       0.01(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2373.         10.    574.       0.15(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
   -2373.       2410.    726.       0.12(  4,24)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)       0.00(  0, 0)
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    -2373.      4810.     700.        0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -2173.        10.     564.        0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -2173.      2410.     675.        0.15(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -2173.      4810.     675.        0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.     -2390.     487.        0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.     -1390.     522.        0.04(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.      -390.     487.        0.11(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.      -190.     526.        0.11(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.        10.     549.        0.13(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.       210.     549.        0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.       410.     547.        0.24(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.       610.     479.        0.54(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.      1610.     768.        0.65(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.      2410.     675.        0.17(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
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                                           HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

  RECEPTOR COORDINATES                                             HIGHEST FIVE CONCENTRATIONS
       METERS                                                       VALUE(DAY,ENDING HOUR)

      X           Y        ELEV.      HIGHEST           2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
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    -1973.      2610.     799.        0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.      3610.     696.        0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.      4610.     628.        0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.      4810.     646.        0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1973.      5610.     597.        0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1773.      -790.     529.        0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1773.      -590.     497.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1773.       210.     539.        0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1773.       410.     491.        0.26(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1773.      2410.     668.        0.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1773.      4810.     609.        0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.     -1190.     433.        0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.      -990.     459.        0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.      -790.     482.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.      -590.     487.        0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.      -390.     465.        0.11(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.      -190.     475.        0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.        10.     505.        0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.       210.     495.        0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.       410.     482.        0.31(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.      2410.     648.        0.25(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1573.      4810.     609.        0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1373.     -1190.     427.        0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1373.      2410.     609.        0.18(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1373.      4810.     575.        0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1173.     -1190.     423.        0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1173.      -990.     423.        0.07(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1173.      -790.     424.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1173.      -590.     425.        0.09(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1173.      -390.     425.        0.10(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1173.      2410.     610.        0.14(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
    -1173.      4810.     555.        0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.     -2390.     407.        0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.     -1390.     411.        0.06(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.      -390.     421.        0.10(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.      -190.     423.        0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.       610.     387.        0.30(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.      1610.     594.        0.43(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.      2410.     610.        0.11(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.      2610.     609.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.      3610.     609.        0.03(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.      4610.     551.        0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.      4810.     549.        0.02(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -973.      5610.     549.        0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -773.      -190.     420.        0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -773.      2010.     603.        0.16(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -773.      2210.     610.        0.12(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -773.      2410.     610.        0.08(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
     -773.      4810.     549.        0.01(  4,24)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)      0.00(  0, 0)
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                                           HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)
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RECEPTOR COORDINATES                               HIGHEST FIVE CONCENTRATIONS
       METERS                                       VALUE(DAY,ENDING HOUR)

   X          Y      ELEV.       HIGHEST         2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
--------------------------------------------------------------------------------------------------------------------
   -573.      -190.    417.     0.11(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -573.      2010.    593.     0.11(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -573.      2210.    609.     0.09(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -573.      2410.    610.     0.07(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -573.      4810.    572.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -373.      -390.    410.     0.09(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -373.      -190.    418.     0.10(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -373.      2010.    564.     0.09(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -373.      2210.    594.     0.07(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -373.      2410.    599.     0.06(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -373.      4810.    598.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -173.      -390.    402.     0.08(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -173.      2410.    502.     0.06(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   -173.      4810.    609.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.     -2390.    366.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.     -1390.    366.     0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.      -590.    384.     0.07(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.      -390.    392.     0.08(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.       610.    293.     0.09(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.      1610.    502.     0.09(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.      2410.    428.     0.06(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.      2610.    489.     0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.      3610.    555.     0.02(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.      4610.    605.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.      4810.    609.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
     27.      5610.    487.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    227.      -590.    373.     0.07(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    227.      2410.    426.     0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    227.      4810.    608.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    427.      -790.    365.     0.06(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    427.      -590.    366.     0.06(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    427.      2410.    424.     0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    427.      4810.    575.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    627.      -790.    360.     0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    627.      2410.    408.     0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    627.      4810.    548.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    827.      -790.    355.     0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    827.      2410.    372.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
    827.      4810.    563.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.     -2390.    339.     0.03(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.     -1390.    346.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.      -790.    350.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.      -390.    351.     0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.       610.    320.     0.05(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.      1610.    398.     0.06(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.      2410.    363.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.      2610.    365.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.      3610.    422.     0.02(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.      4610.    541.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
                                                                                           POSTZ - PAGE NO.   6
1


                                          HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES                               HIGHEST FIVE CONCENTRATIONS
       METERS                                       VALUE(DAY,ENDING HOUR)

   X          Y      ELEV.       HIGHEST         2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
--------------------------------------------------------------------------------------------------------------------
   1027.      4810.    548.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1027.      5610.    600.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1227.      -790.    344.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1227.      2410.    355.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1227.      4810.    585.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1427.      -990.    337.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1427.      -790.    338.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1427.      2410.    346.     0.03(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1427.      4810.    588.     0.01(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1627.     -1190.    331.     0.03(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1627.      -990.    332.     0.03(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1627.      1610.    331.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1627.      1810.    331.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1627.      2010.    332.     0.04(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1627.      2210.    333.     0.03(  4,24)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)     0.00(  0, 0)
   1627.      2410.    337.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   1627.      4810.    532.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   1627.      5010.    533.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   1827.     -1390.    325.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   1827.     -1190.    326.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   1827.      1610.    321.      0.04(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   1827.      5010.    486.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.     -2390.    309.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.     -1390.    320.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.      -390.    322.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.       610.    317.      0.04(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.      1410.    313.      0.04(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2037.      1231.    311.      0.04(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.      1610.    312.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.      2610.    327.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.      3610.    342.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.      4610.    440.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.      5010.    469.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2027.      5610.    515.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2227.     -1590.    313.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2227.       610.    311.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2227.       810.    310.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2227.      1210.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2227.      1410.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2227.      5010.    438.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2427.     -1590.    309.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2427.       410.    307.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2427.       610.    304.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2427.       810.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2427.      1210.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2427.      5010.    426.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.     -1590.    304.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.     -1390.    304.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.      -390.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
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                                  HIGH FIVE TABLE FOR  8880 HOUR AVERAGES (CONT.)

 RECEPTOR COORDINATES                                         HIGHEST FIVE CONCENTRATIONS
       METERS                                                   VALUE(DAY,ENDING HOUR)

     X            Y       ELEV.        HIGHEST          2ND HIGH          3RD HIGH          4TH HIGH          5TH HIGH
----------------------------------------------------------------------------------------------------------------------
   2627.      -190.    304.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.        10.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.       210.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.       410.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.       610.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.       810.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.      1010.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.      1210.    305.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2262.       433.    311.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2627.      5010.    380.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2827.     -1390.    301.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2827.     -1190.    302.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2827.      -990.    302.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2827.      -790.    302.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2827.      -590.    303.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2827.      -390.    303.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2827.      -190.    303.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2827.        10.    303.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   2827.      5010.    358.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.     -2390.    297.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.     -1390.    298.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.      -390.    300.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.       610.    301.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.      1610.    302.      0.03(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.      2610.    303.      0.02(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.      3610.    305.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.      4610.    333.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.      5010.    348.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3027.      5610.    372.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3227.      5010.    338.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3227.      5210.    345.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3227.      5610.    362.      0.01(  4,24)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)
   3227.      6010.    373.      0.01(  4,24)     0.00(  0,  0)*    0.00(  0,  0)     0.00(  0,  0)     0.00(  0,  0)

 * - DENOTES PEAK VALUE
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ATTACHMENT 9

LEVEL 2 HEALTH RISK ASSESSMENT

REVISED HEALTH RISK ASSESSMENT FOR THE EAGLE MOUNTAIN LANDFILL PROJECT

April 1992

Prepared by:

Sierra Research, Inc.
1521 "I" Street
Sacramento, CA 95814
(916) 444-6666

REVISED HEALTH RISK ASSESSMENT
FOR THE EAGLE MOUNTAIN LANDFILL PROJECT

Risk Assessment Protocol

In the Draft Environmental Impact Statement/Environmental Impact Report (EIS/EIR), a cancer risk assessment was performed using screening meteorological data, which included a range of generic wind and meteorological conditions. Screening data were used because onsite or nearby meteorological data were not available. One year of actual meteorological data has now been collected and used in preparing this refined assessment. These data are discussed in Attachment 8, Appendix M of the Final EIS/EIR. In addition, this revised assessment addresses other issues in response to comments on the Draft EIS/EIR; including the source of the emission rates for the toxic substances, updated Unit Risk Values, and noncancer health effects.

This assessment of both cancer and noncancer risks resulting from the emissions of substances present in landfill gas follows the procedures used in the following documents:

> California Air Pollution Control Officers Association, Toxic Air Pollutant Source Assessment Manual for California Air Pollution Control Districts and Applicants for Air Pollution Control District Permits, 1987. (Also referred to as the CAPCOA Air Toxics Assessment Manual)
>
> California Air Pollution Control Officers Association, Air Toxics "Hot Spots" Program, Risk Assessment Guidelines, January 1992. (Also referred to as the CAPCOA AB 2588 Risk Assessment Guidelines)
>
> South Coast Air Quality Management District, "Procedures for Preparing Risk Assessments to Comply with Air Toxics Rules of the South Coast Air Quality Management District", January 1992.

In this revised assessment, the cancer risk was determined using a quantitative risk assessment, based on the estimated concentrations from the dispersion model analyses (see Attachment 8, Appendix M of the Final EIS/EIR) and the Unit Risk Value (URV) for each substance in question. For this analysis, only the inhalation pathway was considered, because all the substances being evaluated are gases at normal temperatures.

To compute the cancer risk, the annual average groundlevel concentration (in $\mu g/m^3$), determined from a dispersion model, was multiplied by the Unit Risk Value as follows:

Groundlevel Concentration × Unit Risk Value = Excess Lifetime Risk

An example of this calculation is shown in Attachment 9-1. The cancer risk resulting from each pollutant was determined individually and in total.

This revised risk assessment used actual meteorological data from the project site, whereas the assessment in the Draft EIS/EIR used screening meteorological data. Thus, the dispersion model can calculate annual concentrations directly, while the screening assessment required that the maximum hourly concentrations be converted to annual levels using a conservative adjustment factor. Therefore, using actual meteorological data typically produces lower concentrations than those determined by using screening meteorological data.

The chronic health risks are reported as hazard indices, which compare the concentrations determined by air dispersion modeling to acceptable exposure levels. To determine the health hazard index, the estimated long-term ambient concentration is divided by the acceptable exposure level. If more than one pollutant is present, the hazard indices for those pollutants that affect the same target organ are summed together. An example of this calculation is shown in Attachment 9-2.

Acute health risks were not evaluated for two reasons. First, the project is not expected to generate large, short-term pollutant releases that would result in high groundlevel concentrations. The primary source of pollutants, which will be demonstrated later in this report, is seepage from the landfill. Emissions through the surface of the landfill and from the flares will occur at a relatively uniform release rate. Acute risks are generally associated with accidental releases or with short-term, high mass flow releases, such as those from sterilization or fumigation processes, which may be coupled with adverse meteorological conditions. The possibility of a large release of unburned gas from the gas flares is remote. In the event of a flame-out in the flares, the landfill gas blowers would shut down immediately. The flares then would attempt to restart automatically. If the flame could not be reinitiated, the blowers would stay off until an operator could check out the problem. Secondly, the chronic risk assessment indicated that the long-term ambient concentrations will be a few orders of magnitude below the acceptable chronic exposure levels. This finding implies that the short-term (e.g., hourly) concentrations under normal operations will be similarly below the appropriate acute exposure standards. Therefore, acute health risks are not anticipated to result from this project.

Emission Sources and Rates

For this risk assessment, two sources were evaluated: the landfill gas flares and the landfill itself. As the landfill begins to decompose, gas will be generated by the anaerobic activity in the landfill. The gas will consist primarily of methane and carbon dioxide with trace concentrations of other substances either produced by the bacterial activity or evaporated from materials disposed of in the landfill. The gas will be collected through a series of vertical extraction wells and will be disposed of by flaring.

The emission rates for the toxic substances were based on the concentrations found in landfill gas from four southern California landfill sites. These substances are reported in the Solid Waste Assessment Tests required under AB 3525 and AB 3374, and were provided to Sierra Research by SCS Engineers. The concentrations vary widely among the four sites and among the reported substances, as shown in Table 9–1. Thus, to estimate the worst-case health risks, the highest concentration of each pollutant from any of the four sites was used in the risk assessment. To calculate the most probable health risks, the average concentration of each pollutant was used in the risk assessment. Average concentrations were calculated by averaging the upper and lower bounds (not including nondetectable levels) of the reported concentration ranges.

The emission rates (expressed in pounds per hour) were estimated using the aforementioned concentrations and the maximum landfill gas production rate of 46,000 cubic feet per minute. A minimum of 80 percent of the landfill gas is expected to be collected by the landfill gas collection system and vented to the flares. This gas collection efficiency was discussed in the Section IV.B.2 (Public Health and Safety) of the Draft EIS/EIR and is discussed further in the responses to several comments on the Draft EIS/EIR. The flares are assumed to destroy 99 percent of the toxic hydrocarbons, which is documented in Appendix M, Attachment 2, Table FEIR–AQ–13, of the Final EIS/EIR. The remaining landfill gas will either be held under the landfill cap or seep through cracks in the cover to the atmosphere. For the purpose of this risk assessment, it is assumed that all of the gas not collected will escape through the landfill cover. Given these conditions, the emission rates were calculated and are shown in Tables 9–2 and 9–3.

The gas that escapes through the landfill cover is assumed to be distributed uniformly over an area described by four rectangles that approximately cover the area circumscribed by the boundaries of the landfill on the west, north, and south sides and by the working face (corresponding to the midpoint in the project life) on the east side. The elevation of this emission source is assumed to be the same as the finished grade of the landfill in the midpoint of each of the four rectangles. The locations of the eight gas flares are the same as those assumed for the criteria pollutant modeling (see Attachment 8 of Appendix M for locations).

TABLE 9-1
CONCENTRATION RANGE OF SPECIFIC CONTAMINANT IN RAW LANDFILL GAS BY LANDFILL

CONTAMINANT[1]	SUNSHINE CANYON	SCHOLL CANYON	PUENTE HILLS	MILLIKEN	OVERALL RANGE
Vinyl Chloride	5,100 – 12,900	9,000 – 9,600	4,500 – 5,200	ND[2] – 849	ND – 12,900
Benzene	240 – 1,290	1,200 – 1,300	5,700 – 11,000	ND – 1,387	ND – 11,000
1,2-Dibromoethane	6	2.50	2.50	ND	ND – 6
1,2-Dichloroethane	100 – 552	120 – 140	210 – 330	ND	ND – 552
Dichloromethane	2,060 – 43,000	550 – 570	5,600 – 7,400	1,116 – 2,797	200 – 43,000
Tetrachloroethene	62 – 53,100	3,100 – 3,300	14,000 – 17,000	139 – 772	62 – 53,100
Tetrachloromethane	16	ND	ND	ND	ND – 16
1,1,1-Trichloroethane	20 – 580	140	330 – 560	ND	ND – 580
Trichloroethylene	260 – 15,500	1,600	3,900 – 6,300	90 – 899	90 – 15,500
Trichloromethane	14 – 18	5	7 – 12	ND	ND – 18

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[1] All values in parts per billion by volume.

[2] None detected

Modeling Protocol

Modeling the impacts of emissions from the flares and the landfill itself required the use of a model capable of assessing both point and area sources. Furthermore, both simple and complex terrain modeling capabilities were needed to investigate potential air quality impacts from the proposed project, due to the variability of terrain in the vicinity of the project.

A number of EPA-approved air quality dispersion models were available to conduct analyses for both the simple and complex terrain surrounding the Eagle Mountain site. The most important considerations for model choice were the capability of analyzing impacts in complex terrain and the availability of point and area source algorithms. Simple terrain models, such as ISCST, internally truncate terrain at stack height, and thus, they are inappropriate for use in the complex terrain found at Eagle Mountain. Many of the standard or recently developed models usually used for complex terrain modeling (COMPLEX1, RTDM, CTDMPLUS) were explicitly developed for point sources such as stacks, and thus, they also are inappropriate for modeling the Eagle Mountain landfill project. One available model that is suitable for point and area sources in regions of complex terrain is SHORTZ. This risk assessment used SHORTZ as the preferred choice for modeling air quality impacts of the Eagle Mountain project.

In summary, long-term modeling in simple and complex terrain was performed using SHORTZ. EPA guidance (Section 4.2.2, "Supplement B to the Guideline on Air Quality Models"), strictly interpreted, indicates that only a long-term model such as LONGZ should be used for pollutants having only a long-term standard. However, since SHORTZ is capable of determining annual as well as short-term impacts, and since no systematic bias between SHORTZ and LONGZ has been demonstrated, SHORTZ was used for this analysis.

Due to the previous lack of onsite or nearby meteorological data, the dispersion modeling for the risk assessment in the Draft EIS/EIR used screening meteorological data, consisting of preset combinations of wind speed and stability classes. To refine the risk assessment, onsite meteorological data collected during the past year were used. The origin of this data and the processing of it for input into the SHORTZ model are discussed in Appendix M, Attachment 8 of the Final EIS/EIR.

Unit Risk Values and Acceptable Exposure Levels

The Unit Risk Values (URVs) were taken from Table 1 of the South Coast Air Quality Management District's risk assessment procedures. These values are the same as those published in Table III-6 of the California Air Pollution Control Officer Association's AB 2588 Risk Assessment Guidelines, except for tetrachloroethene, which is not included in the South Coast procedures, and dichloromethane, which was recently (January 1992) revised in the CAPCOA AB 2588 Guidelines. These values are derived from studies by the Office of Environmental Health Hazard Assessment of Cal-EPA (formerly within the California Department of Health Services), and the U.S. Environmental Protection Agency. They represent the probability of contracting cancer as a result of a 70-year exposure to 1 $\mu g/m^3$ of the substance in question. Some of the values are different than those used in the Draft EIS/EIR, which were obtained from earlier risk assessment guidance. The Unit Risk Values used in this revised assessment represent the latest values approved for use by the health agencies.

The relevant acceptable exposure levels for the chemicals with noncancer impacts were taken from Table III-8 of the CAPCOA AB 2588 Risk Assessment Guidelines. Since the SCAQMD rules do not address noncancer effects, similar values are not included in the SCAQMD guidance document. The relevant toxicological endpoints (target organs) for the substances in questions are indicated in Table III-10 of the risk assessment guidelines.

Modeling Results

Copies of the input and output files of the modeling run are included in Attachment 8, Appendix M of the Final Environmental Impact Statement/Environmental Impact Report. The data were processed using a post-processor called POSTZ. The important data from the modeling runs, specifically the annual average concentrations for each receptor location, were extracted from the output file. These data also are shown in Attachment 8.

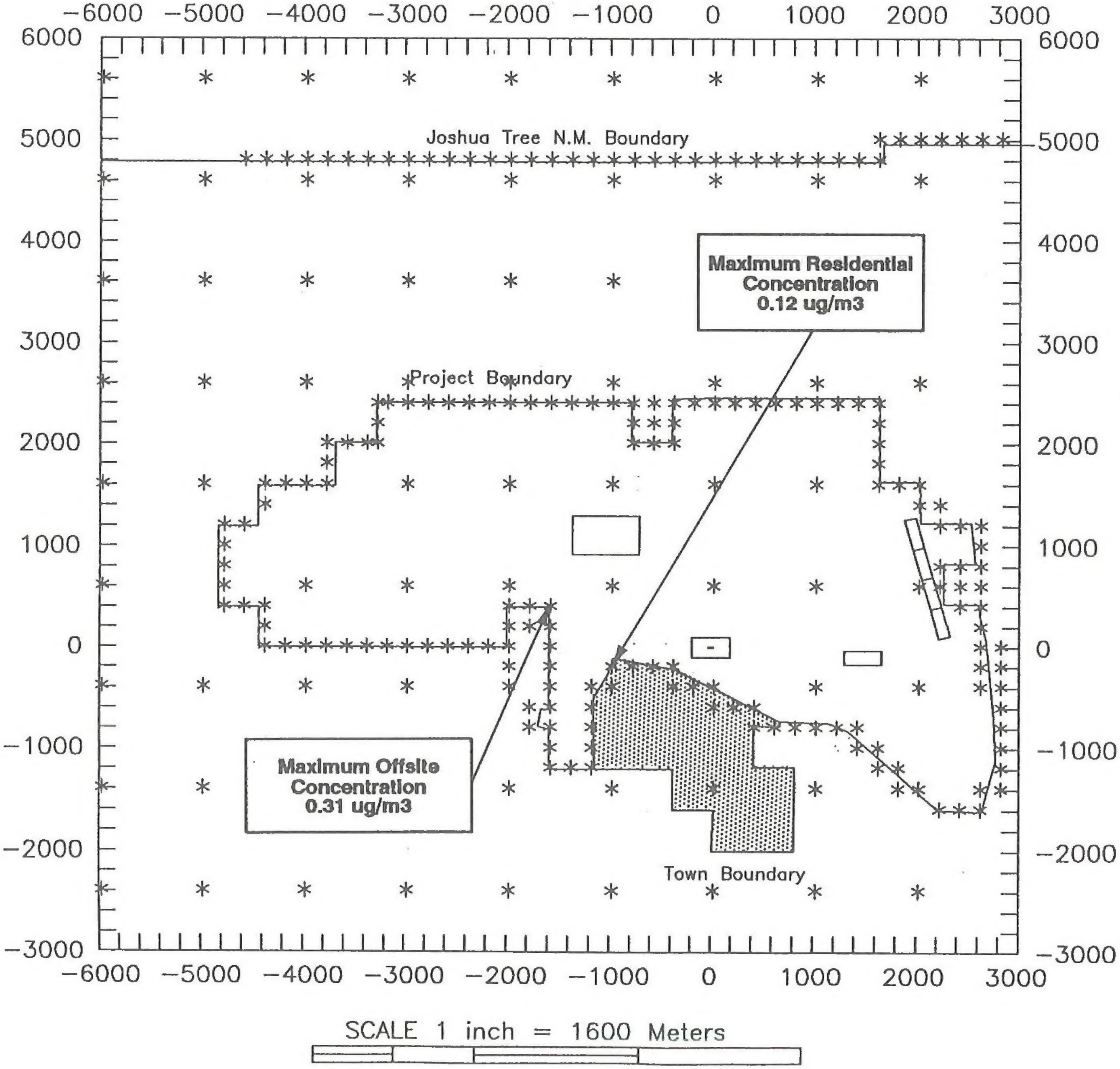
The highest offsite concentration for a unit emission rate of one gram per second was determined to be 0.31 micrograms per cubic meter at a receptor located along the southern boundary of the landfill area (see Figure 9-1). However, this receptor is located in an uninhabited Bureau of Land Management area, which is presently zoned by the County of Riverside for mineral resources and related manufacturing uses. Because of the steep topography in this area, it is unlikely that this site will be developed for industrial, commercial, or residential use in the foreseeable future. At most, potential public exposures could occur during infrequent recreation use of the area. However, the frequency of such exposures would be minor compared to residential exposures in the town of Eagle Mountain. Therefore, the maximum concentration at a residential receptor was chosen for evaluation. The maximum residential concentration, 0.12 micrograms per cubic meter for a unit emission rate of one gram per second, occurs at a receptor located at the northwest corner of Eagle Mountain as shown in Figure 9-1. This value was adjusted by the substance-specific emission rates (in grams per second) to determine the ambient concentrations of each particular substance.

Health Risks

The probability of contracting cancer as a result of emissions from the flares and the landfill is shown in Tables 9-2 and 9-3, based on the maximum and average concentrations of trace organic compounds, respectively. These tables show the effects when the landfill gas collection efficiency is assumed to be 80 percent and the flare destruction efficiency is assumed to be 99 percent.

Eagle Mountain Project

Risk Assessment Receptor Locations



-6000
-5000
-4000
-3000
-2000
-1000
0
1000
2000
3000
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
Joshua Tree N.M. Boundary
Project Boundary
Maximum Residential Concentration 0.12 ug/m3
Maximum Offsite Concentration 0.31 ug/m3
Town Boundary
SCALE 1 inch = 1600 Meters

Table 9-2

Eagle Mountain Project
Landfill Gas Risk
Cancer Health Effects
Maximum Trace Concentrations

Landfill Gas Production Rate = 46000 scfm
= 66.24 MMscf/day
Gas Collection Efficiency = 80.0%
Flare Gas Feed Rate = 36800 scfm
Fugitive Gas Release = 9200 scfm
Flare Efficiency = 99.0%

Catalyst Efficiency = 0.0%
Maximum Groundlevel Impact
from Unit Emission Rate = 0.12 ug/m3
Unit Emission Rate = 1.0 gm/sec

Toxic Gas	Mole. Weight	Max. Conc. (ppb)	Flare Feed (lb/hr)	Flare Emission Rate (lb/hr)	Flare Emission Rate (gm/sec)	Fugitive Landfill Emission Rate (lb/hr)	Fugitive Landfill Emission Rate (gm/sec)	Maximum Groundlevel Concentration ug/m3 (Annual)	Unit Risk Value 1/(ug/m3)	70-Year Risk
Vinyl Chloride	62.50	12900	4.69	0.047	0.006	1.17	0.148	1.77E-02	7.8E-05	1.38E-06
Benzene	78.11	11000	5.00	0.050	0.006	1.25	0.157	1.89E-02	2.9E-05	5.48E-07
Dibromoethane	173.86	6	0.01	0.000	0.000	0.00	0.000	2.29E-05	7.1E-05	1.63E-09
Dichloroethane	98.96	552	0.32	0.003	0.000	0.08	0.010	1.20E-03	2.2E-05	2.64E-08
Dichloromethane	84.94	43000	21.24	0.212	0.027	5.31	0.669	8.03E-02	1.0E-06	8.03E-08
Tetrachloroethene	165.83	53100	51.21	0.512	0.065	12.80	1.613	1.94E-01	5.8E-07	1.12E-07
Tetrachloromethane	153.84	16	0.01	0.000	0.000	0.00	0.000	5.41E-05	4.2E-05	2.27E-09
Trichloroethylene	131.40	15500	11.84	0.118	0.015	2.96	0.373	4.48E-02	2.0E-06	8.95E-08
Trichloromethane	119.39	18	0.01	0.000	0.000	0.00	0.000	4.72E-05	5.3E-06	2.50E-10
									TOTAL RISK	2.24E-06

Table 9-3

Eagle Mountain Project
Landfill Gas Risk
Cancer Health Effects
Average Trace Concentrations

Landfill Gas Production Rate = 46000 scfm
= 66.24 MMscf/day
Gas Collection Efficiency = 80.0%
Flare Gas Feed Rate = 36800 scfm
Fugitive Gas Release = 9200 scfm
Flare Efficiency = 99.0%

Catalyst Efficiency = 0.0%
Maximum Groundlevel Impact
from Unit Emission Rate = 0.12 ug/m3
Unit Emission Rate = 1.0 gm/sec

Toxic Gas	Mole. Weight	Max. Conc. (ppb)	Flare Feed (lb/hr)	Flare Emission Rate (lb/hr)	Flare Emission Rate (gm/sec)	Fugitive Landfill Emission Rate (lb/hr)	Fugitive Landfill Emission Rate (gm/sec)	Maximum Groundlevel Concentration ug/m3 (Annual)	Unit Risk Value 1/(ug/m3)	70-Year Risk
Vinyl Chloride	62.50	6735	2.45	0.024	0.003	0.61	0.077	9.25E-03	7.8E-05	7.2E-07
Benzene	78.11	3160	1.44	0.014	0.002	0.36	0.045	5.42E-03	2.9E-05	1.6E-07
Dibromoethane	173.86	4	0.00	0.000	0.000	0.00	0.000	1.40E-05	7.1E-05	9.9E-10
Dichloroethane	98.96	242	0.14	0.001	0.000	0.03	0.004	5.26E-04	2.2E-05	1.2E-08
Dichloromethane	84.94	7880	3.89	0.039	0.005	0.97	0.123	1.47E-02	1.0E-06	1.5E-08
Tetrachloroethene	165.83	11434	11.03	0.110	0.014	2.76	0.347	4.17E-02	5.8E-07	2.4E-08
Tetrachloromethane	153.84	16	0.01	0.000	0.000	0.00	0.000	5.41E-05	4.2E-05	2.3E-09
Trichloroethylene	131.40	4078	3.12	0.031	0.004	0.78	0.098	1.18E-02	2.0E-06	2.4E-08
Trichloromethane	119.39	11	0.01	0.000	0.000	0.00	0.000	2.94E-05	5.3E-06	1.6E-10
									TOTAL RISK	9.57E-07

The estimated cancer risk using the worst-case concentrations and maximum gas production rate is 2.2 x 10^{-6} (an increased probability of 2.2 in a million). The corresponding value using the most-probable concentrations and maximum production rate is 9.6 x 10^{-7}. South Coast Air Quality Management District Rule 1401 specifies that projects using Best Available Control Technology for Toxics (or T-BACT) may be approved if the cancer risk is less than 1 x 10^{-5}. If the South Coast Air Quality Management District concurs that the proposed landfill gas collection system constitutes T-BACT, then the project would be approved, with respect to health effects, as proposed.

In several comments on the Draft EIS/EIR, it was suggested that the risk analysis be based on higher collection efficiency, as evidenced by current landfill practices, and lower destruction efficiency, corresponding to average, rather than best-case, test results. At an 80 percent collection efficiency, the contribution of the flare emissions to the overall risk is small. As the collection efficiency increases, the relative contribution from the landfill emissions goes down and the variability of the destruction efficiency becomes more important. However, the overall cancer risk decreases with the improvement in collection efficiency. Thus, the destruction efficiency is not a critical factor in determining the health impacts.

The cancer burden is a measure of the number of potential cancer cases that could occur in a population exposed to cancer risks greater than 1 x 10^{-6}. The cancer burden is determined by multiplying the cancer risk times the number of persons living in the exposed area. A cancer burden less than one indicates that it is unlikely that one additional cancer case will develop in the vicinity of the project due to the project's operation. The South Coast Air Quality Management District, in Rule 1401, specifies that the cancer burden must be less than 0.5 for the project to be approvable. For densely populated areas, the cancer burden may be estimated for each census tract, using the population in the tract and the cancer risk estimated to occur at the centroid of the tract. In the case of the Eagle Mountain project, the population in the vicinity of the site at full project development is small (less than 2,000 persons). Therefore, the cancer burden could be conservatively estimated by multiplying the entire population, whether or not they are within the 1 x 10^{-6} risk area, times the maximum estimated cancer risk. Using this approach, the cancer burden was determined to be 0.004, which indicates that the occurrence of even one potential cancer case in the nearby population would be unlikely.

The chronic noncancer health effects are summarized in Tables 9-4 and 9-5 using the maximum and average concentrations of trace constituents in the landfill gas, respectively. The hazard indices of the individual substances are added together when two or more substances could affect the same toxicological endpoint (e.g., the gastrointestinal system). This procedure simulates the cumulative effects of exposure to multiple compounds, assuming the effects are additive. All hazard indices are much less than one by a minimum factor of about 1,000. This finding indicates that the estimated ambient concentrations are unlikely to produce any long-term noncancer health effects.

Table 9-4

Eagle Mountain Project
Landfill Gas Risk
Chronic Noncancer Health Effects
Maximum Trace Concentrations

Landfill Gas Production Rate = 46000 scfm
= 66.24 MMscf/day
Gas Collection Efficiency = 80.0%
Flare Gas Feed Rate = 36800 scfm
Fugitive Gas Release = 9200 scfm
Flare Efficiency = 99.0%

Catalyst Efficiency = 0.0%
Maximum Groundlevel Impact from Unit Emission Rate = 0.12 ug/m3
Unit Emission Rate = 1.0 gm/sec

Toxic Gas	Mole. Weight	Max. Conc. (ppb)	Flare Feed (lb/hr)	Flare Emission Rate		Fugitive Landfill Emission Rate		Maximum Groundlevel Concentration ug/m3 (Annual)	Acceptable Exposure Level (ug/m3)	Hazard Index
				(lb/hr)	(gm/sec)	(lb/hr)	(gm/sec)			
Vinyl Chloride	62.50	12900	4.69	0.047	0.006	1.17	0.148	1.77E-02	2.6E+01	6.82E-04
Benzene	78.11	11000	5.00	0.050	0.006	1.25	0.157	1.89E-02	7.1E+01	2.66E-04
Dibromoethane	173.86	6	0.01	0.000	0.000	0.00	0.000	2.29E-05	4.6E+00	4.98E-06
Dichloroethane	98.96	552	0.32	0.003	0.000	0.08	0.010	1.20E-03	9.5E+01	1.26E-05
Dichloromethane	84.94	43000	21.24	0.212	0.027	5.31	0.669	8.03E-02	3.0E+03	2.68E-05
Tetrachloroethene	165.83	53100	51.21	0.512	0.065	12.80	1.613	1.94E-01	3.5E+01	5.53E-03
Tetrachloromethane	153.84	16	0.01	0.000	0.000	0.00	0.000	5.41E-05	2.4E+00	2.25E-05
Trichloroethane	133.42	580	0.45	0.005	0.001	0.11	0.014	1.70E-03	3.2E+02	5.32E-06
Trichloroethylene	131.40	15500	11.84	0.118	0.015	2.96	0.373	4.48E-02	6.4E+02	7.00E-05
Trichloromethane	119.39	18	0.01	0.000	0.000	0.00	0.000	4.72E-05	3.5E+01	1.35E-06

Toxicological Endpoint Hazard Index	
Gastrointestinal/Liver	8.20E-04
Reproductive System	4.98E-06
Respiratory System	4.98E-06
Central Nervous System	3.68E-04
Immune System	1.26E-05
Kidney	1.26E-05

Table 9-5

Eagle Mountain Project
Landfill Gas Risk
Chronic Noncancer Health Effects
Average Trace Concentrations

Landfill Gas Production Rate = 46000 scfm
= 66.24 MMscf/day
Gas Collection Efficiency = 80.0%
Flare Gas Feed Rate = 36800 scfm
Fugitive Gas Release = 9200 scfm
Flare Efficiency = 99.0%

Catalyst Efficiency = 0.0%
Maximum Groundlevel Impact
from Unit Emission Rate = 0.12 ug/m3
Unit Emission Rate = 1.0 gm/sec

Toxic Gas	Mole. Weight	Max. Conc. (ppb)	Flare Feed (lb/hr)	Flare Emission Rate (lb/hr)	Flare Emission Rate (gm/sec)	Fugitive Landfill Emission Rate (lb/hr)	Fugitive Landfill Emission Rate (gm/sec)	Maximum Groundlevel Concentration ug/m3 (Annual)	Acceptable Exposure Level (ug/m3)	Hazard Index
Vinyl Chloride	62.50	6735	2.45	0.024	0.003	0.61	0.077	9.25E-03	2.6E+01	3.56E-04
Benzene	78.11	3160	1.44	0.014	0.002	0.36	0.045	5.42E-03	7.1E+01	7.64E-05
Dibromoethane	173.86	4	0.00	0.000	0.000	0.00	0.000	1.40E-05	4.6E+00	3.05E-06
Dichloroethane	98.96	242	0.14	0.001	0.000	0.03	0.004	5.26E-04	9.5E+01	5.54E-06
Dichloromethane	84.94	7880	3.89	0.039	0.005	0.97	0.123	1.47E-02	3.0E+03	4.90E-06
Tetrachloroethene	165.83	11434	11.03	0.110	0.014	2.76	0.347	4.17E-02	3.5E+01	1.19E-03
Tetrachloromethane	153.84	16	0.01	0.000	0.000	0.00	0.000	5.41E-05	2.4E+00	2.25E-05
Trichloroethane	133.42	368	0.29	0.003	0.000	0.07	0.009	1.08E-03	3.2E+02	3.38E-06
Trichloroethylene	131.40	4078	3.12	0.031	0.004	0.78	0.098	1.18E-02	6.4E+02	1.84E-05
Trichloromethane	119.39	11	0.01	0.000	0.000	0.00	0.000	2.94E-05	3.5E+01	8.40E-07

Toxicological Endpoint Hazard Index	
Gastrointestinal/Liver	4.11E-04
Reproductive System	3.05E-06
Respiratory System	3.05E-06
Central Nervous System	1.03E-04
Immune System	5.54E-06
Kidney	5.54E-06

Attachment 9-1

Sample Calculations for Estimates of Carcinogenic Risk

General Calculation

Cancer Risk = Concentration ($\mu g/m^3$) × Unit Risk Value [$(\mu g/m^3)^{-1}$]

Cancer Risk for Benzene

$$\text{Cancer Risk} = 1.89 \times 10^{-2}\ \mu g/m^3 \times 2.9 \times 10^{-5}\ (\mu g/m^3)^{-1}$$

$$= 5.48 \times 10^{-7}$$

Attachment 9–2

Sample Calculations for Estimates of Noncarcinogen Hazard Index

General Calculation

Hazard Index = Concentration ($\mu g/m^3$) ÷ Acceptable Dosage ($\mu g/m^3$)

Hazard Index for Benzene

$$\text{Hazard Index} = 1.89 \times 10^{-2}\ \mu g/m^3 \div 71\ \mu g/m^3$$

$$= 2.66 \times 10^{-4}$$

ATTACHMENT 10

TABLES AND FIGURES WITH DATA RELATED TO REDUCED TRUCK TRAFFIC PROJECT MODIFICATION

REDUCED TRUCK MODIFICATION OF THE PROPOSED PROJECT
EAGLE MOUNTAIN LANDFILL PROJECT

April 1992

Prepared by:

Sierra Research, Inc.
1521 "I" Street
Sacramento, CA 95814
(916) 444-6666

REDUCED TRUCK MODIFICATION OF THE PROPOSED PROJECT
EAGLE MOUNTAIN LANDFILL PROJECT

Emissions Impacts

Emissions from the Reduced Truck Modification of the Proposed Project will be associated with the same activities as the Proposed Project in the Draft EIS/EIR. These activities will occur both offsite, such as the operation of urban transfer stations, and on-site, including all of the operations at the Eagle Mountain site. They will involve both stationary sources, such as the landfill gas flares, and mobile equipment, such as the trains and trucks hauling waste. By emission type, project sources can be grouped into four classes: motor vehicles, fugitive dust sources, fugitive vapor sources, and stationary combustion sources. Motor vehicles include train locomotives, on-highway trucks, and off-highway equipment. Fugitive dust sources include short-term construction activities, landfill road use, mine tailing reclamation, and solid waste covering. Fugitive vapor sources include the landfill, and stationary combustion sources include the landfill gas flares.

Motor vehicles will generate "tailpipe" emissions and, in the case of on-site vehicles, fugitive dust from unpaved roads and cover material handling. Processing of daily cover material will produce particulate emissions as ore tailings are reclaimed by screening and crushing. As the refuse begins to decompose, gas will be generated by the anaerobic activity in the landfill. The gas will consist primarily of methane and carbon dioxide with trace concentrations of other substances either produced by the bacterial activity or evaporated from materials disposed of in the landfill. The gas will be collected through a series of vertical collection wells and will be disposed of by flaring. The burning of the landfill gas in flares will result in the production of combustion emissions. Each of these sources is discussed in more detail below.

Construction Operations - The emissions associated with construction of the Reduced Truck Modification of the Proposed Project will be the same as those described for the Proposed Project in the Draft EIS/EIR. A detailed discussion of construction emissions is contained in Attachment 6, Appendix M of the Final EIS/EIR.

Transfer Stations - The basic transfer station operations under the Reduced Truck Modification of the Proposed Project would be the same as those described in Appendix E, Section II.4.A.1 of the Draft EIS/EIR for the Proposed Project.

Solid Waste Transport - Under the Reduced Truck Modification of the Proposed Project, 16,000 tons per day of solid waste will be transported by train from the Los Angeles Basin to the Southern Pacific railyard in

Colton. At the Colton railyard, an additional 2,000 tons per day of solid waste will be added to the trains for transport to Eagle Mountain. Therefore, a total of 18,000 tons per day of solid waste will be transported by train from the Colton railyard to Eagle Mountain. Furthermore, 2,000 tons per day of solid waste will be transported to Eagle Mountain by truck. Waste will arrive at Eagle Mountain in 25 ton containers compacted at urban transfer sites. Rail and truck transportation will produce exhaust emissions from the combustion of Diesel fuel in internal combustion engines.

On-Site Material Handling (except Fugitive Dust) – As a category, on-site landfill equipment is the largest source of gaseous emissions on the project site. The emission rates of equipment grouped within these categories are the same as those for the Proposed Project in the Draft EIS/EIR and are discussed in Appendix E, Section II.4.A.1 of the Draft EIS/EIR.

Landfill Gas Generation and Combustion – Estimates of landfill gas generation, and associated emissions impacts, are the same for the Reduced Truck Modification of the Proposed Project as for the Proposed Project in the Draft EIS/EIR. These estimates are discussed in Appendix E, Section II.4.A.1 of the Draft EIS/EIR.

Fugitive Dust – Fugitive dust emissions from the Reduced Truck Modification of the Proposed Project involve the same types of activities as discussed in Appendix E, Section II.4.A.1 of the Draft EIS/EIR for the Proposed Project.

Mitigation

The same mitigation measures recommended for the Proposed Project in the Draft EIS/EIR are recommended as well for the Reduced Truck Modification of the Proposed Project. These mitigation measures are discussed in the mitigation monitoring plan of the Final EIS/EIR.

Remaining Project Impacts After Mitigation

Tables 1 and 2 show the emissions with recommended mitigation measures for train and truck solid waste transport, respectively. The emissions associated with the urban transfer stations and all onsite equipment and operations are discussed in Attachment 3, Appendix M of the Final EIS/EIR. Table 3 shows the total emissions associated with the Reduced Truck Modification of the Proposed Project with mitigation. The recommended mitigation measures have the greatest benefits for reducing emissions of oxides of nitrogen and sulfur dioxide. The oxides of nitrogen reductions are due to the use of low

Table 1

Eagle Mountain Project
Train Emissions - 18,000 Tons Refuse Per Day
4.7 Rail Trips Per Day
Reduced Truck Modification with Mitigation

System	Trip Length (miles)	Gross Trailing Weight (tons)	Number of Locomotives	Fuel Use (gal/KTTM)	Fuel Use (gal/trip)
Southern Pacific					
Basin to Colton	58	5439	4	2.37	746
Colton to Ferrum	94	6216	4	2.37	1382
Ferrum to Colton	94	2216	2	3.87	806
Colton to Basin	58	1939	2	3.87	435
				Total	3370
Eagle Mountain					
Ferrum to Landfill	52	6216	3	4.27	1381
Landfill to Ferrum	52	2216	3	2.47	285
				Total	1666

			Pollutant		
	NOX	CO	PM10	VOC	SO2
Southern Pacific					
Emission Factor (lb/1000 gal)*	558	226	13	38.4	71
Emissions (lb/train)	1880	762	44	129	239
Emissions (lb/day)	8837	3579	206	608	1124
Emissions (tons/yr)	1613	653	38	111	205
Eagle Mountain					
Emission Factor (lb/1000 gal)^	235	162	13	63	7
Emissions (lb/train)	391	270	22	105	12
Emissions (lb/day)	1838	1268	104	493	56
Emissions (tons/yr)	335	231	19	90	10
Total System					
Emissions (lb/train)	2271	1031	66	234	251
Emissions (lb/day)	10676	4848	310	1101	1180
Emissions (tons/yr)	1948	885	57	201	215

References:

*"Feasibility and Cost Effectiveness of Controlling Emissions from Diesel Engines in Rail, Marine, Construction, Farm and Other Mobile Off-Highway Equipment", Radian Corporation (2/88), factors for mixed GE and EMD locomotives.

^Emission factors account for retarded injection timing, turbocharging, aftercooling, increased injection pressure, improved air flow control, and use of low sulfur fuel.

Table 2

Eagle Mountain Project
Delivery Truck Emissions
Reduced Truck Modification With Mitigation

Truck Delivery Rate = 2000 tons/day
Truck Capacity = 20 tons/trip
Trip Length (round trip) = 150 miles
Total Haul Miles = 15000 miles/day

On-Highway Trucks	NOX	CO	PM10	VOC	SO2
Emission Factors, gm/VMT*	15.65	7.40	2.28	2.44	3.21
Total Emissions, lb/day	517.66	244.59	75.28	80.79	106.18
Total Emissions, ton/yr	94.47	44.64	13.74	14.75	19.38

Reference:

*California Air Resources Board's EMFAC7D/BURDEN7B models for 1995 calendar year, Southeast Desert Air Basin

Table 3

Eagle Mountain Project
Total Project Emissions
Reduced Truck Modification With Mitigation

Activity	(lb/day)					(ton/yr)				
	NOx	CO	PM10	VOC	SO2	NOx	CO	PM10	VOC	SO2
Offsite Sources:										
Transfer Stations	1319	570	117	121	105	241	104	21	22	19
Trains	10676	4848	310	1101	1180	1948	885	57	201	215
On-Highway Trucks	518	245	75	81	106	95	45	14	15	19
Subtotal, Offsite	12513	5663	502	1303	1391	2284	1034	92	238	253
Onsite Sources:										
Onsite Vehicle Exhaust	1600	713	97	103	52	292	130	18	19	9
Onsite Fugitive Dust			684					125		
Landfill Gas Flares	1182	816	676	845	310	216	149	123	154	57
Subtotal, Onsite	2782	1529	1457	948	362	508	279	266	173	66
PROJECT GRAND TOTAL	15295	7192	1959	2251	1753	2792	1313	358	411	319

NOx emitting engines in locomotives and on-site landfill equipment, as well as the electrification of portions of the operation. The sulfur dioxide reductions are due to the use of ultra-low sulfur fuel in all Diesel burning equipment owned by Mine Reclamation Corp. The use of this fuel results in associated reductions in particulate matter emissions as well.

In addition, the project design reflects substantial reductions (up to 95%) in particulate emissions due to a variety of dust suppression techniques, since it is likely that these measures would be required in order to comply with South Coast Air Quality Management District requirements. Consequently, all estimates of project emissions (with and without mitigation) reflect these reductions.

Project Impacts - Ambient Concentrations

Ambient concentrations associated with the Reduced Truck Modification of the Proposed Project would be the same as those for the Proposed Project in the Draft EIS/EIR. A discussion of ambient impacts is contained in Attachment 8, Appendix M of the Final EIS/EIR.

Consistency with Regulatory Programs

The Reduced Truck Modification of the Proposed Project would demonstrate consistency with applicable federal and local air quality requirements in the same manner as the Proposed Project in the Draft EIS/EIR and is discussed in Appendix E, Section II.4.A.3 of the Draft EIS/EIR.

Assessment of Significance

Ozone - Table 4 compares the impacts from the Reduced Truck Modification of the Proposed Project to various significance levels for ozone. In this table, hydrocarbon emissions are used to evaluate the significance of ozone impacts; there are no approved techniques available which can be used to estimate the change in ambient ozone concentrations due to any of the alternatives.

Compared with a baseline of zero emissions, the Reduced Truck Modification of the Proposed Project would be expected to have a significant impact on ozone, due to significant increases in hydrocarbon emissions.

Within the South Coast Air Basin, the increases in emissions of hydrocarbons due to increased transport of waste are more than offset by the expected decrease in flare emissions. Consequently, the Reduced Truck Modification of the Proposed Project is expected to have a

Table 4

Assessment of Significance for Ozone
Reduced Truck Modification

Measure of Significance	Level	Project With Mitigation
		Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	2,251
AQMD major NSR	100 tons/year	411
AQMD major PSD	25 tons/year	411
AQMD sig incr PSD	25 tons/year	411
EPA major source	100 tons/year	411
EPA major mod	40 tons/year	411
Ozone Measurement Accuracy and Reporting Precision		
ARB accuracy	0.54 pphm	
ARB reporting	1 pphm	
Other Measures		
Zero molecule	0 lbs/day	2,251

beneficial impact on hydrocarbon emissions within the South Coast Air Basin, while resulting in a significant increase in the Southeast Desert Air Basin. Since both regions experience violations of the state and federal ozone standards, the overall impacts for ozone would be considered significant for the Reduced Truck Modification of the Proposed Project.

Nitrogen Dioxide - Table 5 shows the impacts of the Reduced Truck Modification of the Proposed Project on nitrogen dioxide. Once again, this modification is shown to result in significant impacts for this pollutant.

Carbon Monoxide - The impacts of the Reduced Truck Modification of the Proposed Project on carbon monoxide is shown in Table 6. The data show that, compared with a baseline of zero emissions, this modification would have a significant impact on carbon monoxide. However, this modification would reduce carbon monoxide emissions in the South Coast Air Basin - where state and federal air quality standards are exceeded - while increasing emissions in the Desert areas which still meet the standards.

Sulfur Dioxide - Table 7 shows the impacts of the Reduced Truck Modification of the Proposed Project on sulfur dioxide. The data show that this modification would result in a significant impact for this pollutant.

Particulate Sulfates - Since particulate sulfates are formed in the atmosphere from emissions of sulfur dioxide, conclusions regarding the significance of sulfur dioxide impacts would be applicable to sulfates as well.

Fine Particulates - The impacts on fine particulates of the Reduced Truck Modification of the Proposed Project is shown in Table 8. Once again, the data show that this modification is expected to result in significant impacts for this pollutant. However, the shift in landfill operations outside of the South Coast Air Basin results in a decrease in PM_{10} emissions which outweighs the increase due to transportation; consequently, the Reduced Truck Modification of the Proposed Project would result in a net air quality benefit within the South Coast Air Basin. However, given the fact that both the Basin and Desert portions of Southern California exceed state and federal air quality standards for fine particulates, the overall impacts would still be considered significant.

Regional Visibility - Regional visibility is affected by emissions of hydrocarbons, oxides of nitrogen, sulfur dioxide, and particulate matter. The Reduced Truck Modification of the Proposed Project would be expected to have a significant effect on regional visibility. Overall, this project would be expected to result in a slight benefit in regional visibility in the South Coast Air Basin, and an adverse impact in the desert areas.

Table 5

Assessment of Significance for Oxides of Nitrogen
Reduced Truck Modification

Measure of Significance	Level	Project With Mitigation
		Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	15,295
AQMD major NSR	100 tons/year	2,792
AQMD major PSD	25 tons/year	2,792
AQMD sig incr PSD	25 tons/year	2,792
EPA major source	100 tons/year	2,792
EPA major mod	40 tons/year	2,792
Concentration Based Measures - Industrial Sources		
AQMD Class I ann	2.5 ug/m3 ann	2
EPA Class I ann	2.5 ug/m3 ann	2
EPA de minimum ann	14.0 ug/m3 ann	2
Measurement Accuracy and Reporting Precision		
ARB accuracy 1h	0.18 pphm 1-hr	14
ARB report 1h	1 pphm 1-hr	14
ARB report ann	0.1 pphm ann	0.1
Other Measures		
Zero molecule	0 lbs/day	15,295

Table 6

Assessment of Significance for Carbon Monoxide
Reduced Truck Modification

Measure of Significance	Level	Project With Mitigation
		Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	7,192
AQMD major NSR	100 tons/year	1,313
AQMD major PSD	25 tons/year	1,313
AQMD sig incr PSD	25 tons/year	1,313
EPA major source	100 tons/year	1,313
EPA major mod	40 tons/year	1,313
Concentration Based Measures - Industrial Sources		
EPA Class I 24 hr	1 ug/m3 24-hr	63
EPA de minimus 8h	575 ug/m3 8-hr	36
Measurement Accuracy and Reporting Precision		
ARB accuracy 1h	0.02 ppm 1-hr	0.05
ARB report 1h	1 ppm 1-hr	0.05
ARB report 8h	0.1 ppm 8-hr	0.03
Other Measures		
Zero molecule	0 lbs/day	7,192

Table 7

Assessment of Significance for Sulfur Dioxide Reduced Truck Modification

Measure of Significance	Level	Project With Mitigation
		Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	1,753
AQMD major NSR	100 tons/year	319
AQMD major PSD	25 tons/year	319
AQMD sig incr PSD	25 tons/year	319
EPA major source	100 tons/year	319
EPA major mod	40 tons/year	319
Concentration Based Measures - Industrial Sources		
AQMD Class I ann	2 ug/m3 ann	0.2
AQMD Class I 24h	5 ug/m3 24-hr	3
AQMD Class I 3h	25 ug/m3 3-hr	21
EPA Class I ann	2 ug/m3 ann	0.2
EPA Class I 24h	5 ug/m3 24-hr	3
EPA Class I 3h	25 ug/m3 3-hr	21
EPA de minimus 24h	13 ug/m3 24-hr	3
Measurement Accuracy and Reporting Precision		
ARB accuracy 1h	0.33 pphm 1-hr	2.0
ARB reporting 1h	1 pphm 1-hr	2.0
Other Measures		
Zero molecule	0 lbs/day	1,753

Table 8

Assessment of Significance for Fine Particulates (PM10) Reduced Truck Modification

Measure of Significance	Level	Project With Mitigation
		Zero Baseline
Emissions Based Measures - Industrial		
AQMD BACT/OFFSETS	0 lbs/day	1,959
AQMD major NSR	100 tons/year	358
AQMD major PSD	25 tons/year	358
AQMD sig incr PSD	25 tons/year	358
EPA major source	100 tons/year	358
EPA major mod	40 tons/year	358
Concentration Based Measures - Industrial Sources		
AQMD Class I ann	5 ug/m3 24-hr	1
AQMD Class I 24h	10 ug/m3 24-hr	11
EPA Class I ann	5 ug/m3 ann	1
EPA Class I 24h	10 ug/m3 24-hr	11
EPA de minimus 24h	10 ug/m3 24-hr	11
Measurement Accuracy and Reporting Precision		
ARB accuracy 24h	1.2 ug/m3 24-hr	11
ARB reporting 24h	1 ug/m3 24-hr	11
ARB reporting ann	0.1 ug/m3 ann	1
Other Measures		
Zero molecule	0 lbs/day	1,959

Acid Deposition – Acid deposition in California results from pollutants formed from oxides of nitrogen and sulfur oxides emissions. The Reduced Truck Modification of the Proposed Project would be expected to have a significant effect on acid deposition.

Toxic Air Pollutants – The Reduced Truck Modification of the Proposed Project is expected to have the same impact with respect to air toxics as the Proposed Project in the Draft EIS/EIR, which are associated with landfill gas generation. Although the analyses presented in this report assume that landfill gas generation rates would be the same for both in-Basin and Desert sites, the drier climate and lower moisture content in the waste would be expected to result in lower generation rates for the Desert site alternatives. The lower gas generation rates would mean lower emissions of toxic air contaminants.

The screening level risk assessment discussed in Attachment 9, Appendix M of the Final EIS/EIR, indicates that the risk from toxic air contaminants associated with the Proposed Project in the Draft EIS/EIR is greater than the one in a million level which is typically assumed to represent a significant impact. Based on these factors, a significant impact is expected from toxic air contaminants for the Reduced Truck Modification of the Proposed Project as well.

Global Warming – "Greenhouse" gases that could contribute to the global warming effect are generated by the operation of landfill equipment; the flaring of landfill gases; and the transportation of waste material. Overall, the Reduced Truck Modification of the Proposed Project would result in the generation of gases that could contribute to global warming. However, the state of knowledge regarding global warming is not adequate to allow an assessment of the significance of the impacts of any individual project at the present time.

Overall Assessment of Significance

Based on the analyses contained in the preceding sections, the Reduced Truck Modification of the Proposed Project is expected to have a significant effect on air quality. However, the Reduced Truck Modification of the Proposed Project could result in air quality benefits in the South Coast Air Basin for ozone, carbon monoxide, and particulate matter, at the expense of increased impacts in desert areas. Improvements in the South Coast Air Basin would pass through to the Desert areas over the San Gorgonio Pass; however, these benefits would not be sufficient to outweigh the direct adverse impacts in the Desert.

Comparison Between Proposed Project in Draft EIS/EIR and Reduced Truck Modification of the Proposed Project

As discussed in the previous sections, the emissions associated with urban transfer stations and all onsite activities are the same for the Proposed Project in the Draft EIS/EIR and the Reduced Truck Modification of the Proposed Project. The only difference between the two projects are the emissions associated truck and train hauling. For the Proposed Project in the Draft EIS/EIR, 16,000 tons of solid waste per day will be transported by train and 4,000 tons of solid waste per day will be transported by truck. For the Reduced Truck Modification of the Proposed Project, 18,000 tons of solid waste per day will be transported by train and 2,000 tons of solid waste per day will be transported by truck. Emission estimates for the Proposed Project in the Draft EIS/EIR with mitigation are discussed in Section II.4.A, Appendix E of the Draft EIS/EIR and Attachment 3, Appendix M of the Final EIS/EIR. Table 9 compares the total emissions for the Proposed Project in the Draft EIS/EIR with mitigation with the estimated total emissions associated with the Reduced Truck Modification of the Proposed Project with mitigation. As shown on Table 9, total NOx and CO emissions for the Reduced Truck Modification of the Proposed Project are higher than for the Proposed Project in the Draft EIS/EIR. This is because the NOx and CO emission factors for rail hauling are slightly higher than for truck hauling (6 percent and 4 percent, respectively). In addition, the Reduced Truck Modification of the Proposed Project results in 2,000 tons of solid waste per day being transported a longer distance than for the Proposed Project in the Draft EIS/EIR (146 miles versus 75 miles). Therefore, the combination of higher NOx and CO emission factors for rail hauling and a longer hauling distance for 2,000 tons of waste per day results in higher NOx and CO emissions for the Reduced Truck Modification of the Proposed Project.

Furthermore, as shown on Table 9, total VOC, SO_2, and PM_{10} emissions for the Reduced Truck Modification of the Proposed Project are lower than for the Proposed Project in the Draft EIS/EIR. This is because the VOC, SO_2, and PM_{10} emissions factors for rail hauling are significantly lower than for truck hauling (45, 80, and 35 percent, respectively). As a result, even with a longer haul distance for 2,000 tons of solid waste per day, the Reduced Truck Modification of the Proposed Project has lower overall VOC, SO_2, and PM_{10} emissions than the Proposed Project in the Draft EIS/EIR.

Table 9
Comparison of Emissions for Proposed Project in Draft EIS/EIR and Reduced Truck Modification of the Proposed Project
(tons/yr)

	NOx	CO	PM_{10}	VOC	SO_2
Proposed Project in Draft EIS/EIR with Mitigation	2713	1275	365	405	321
Reduced Truck Modification of the Proposed Project with Mitigation	2792	1313	358	411	319
Change in Emissions	2.9%	3.0%	-1.9%	-1.5%	-0.6%

ATTACHMENT 11

EPA DECISION LETTER REGARDING APPLICABILITY OF PSD REVIEW

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

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RECON

April 22, 1992

IN REPLY A-5-1
REFER TO: NSR 2

Gary W. Johnson
Mine Reclamation Corporation
960 Tahquitz Canyon Way
Suite 204
Palm Springs, CA 92268

Dear Mr. Johnson:

This is in response to your request for a determination of the applicability of the Prevention of Significant Air Quality Deterioration regulations (40 CFR 52.21) to your project. The proposed project is the construction and operation of the Eagle Mountain Landfill, a municipal solid waste landfill to be located in eastern Riverside County, approximately 10 miles north of Desert Center, California.

Our review of the information submitted indicated that pollutants would have the maximum potential to be emitted in the amounts as listed below:

Pollutant	Emission Rate tons/year
Sulfur Dioxide	56.5
Nitrogen Oxides	215.8
Particulates <PM10>	123.3
Carbon Monoxide	149.0
Hydrocarbons	154.1

According to our analysis of the maximum potential emissions, the proposed project is not a "major stationary source" or "major modification" as defined in 40 CFR 52.21(b).

However, in order for the proposed project to be exempt from PSD, a permit must be received from the South Coast Air Quality Management District containing enforceable conditions limiting emissions from the project to the amounts specified above. In addition, in order for the permit to be considered enforceable, it must include requirements for continuous monitoring and record keeping of emissions, fuel flows and hours of operation. EPA recommends that draft permit conditions be reviewed by this office in order to minimize the possibility of EPA rejection of permitted emission limits on enforceability issues.

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The EPA has therefore determined that the project is exempt from the requirements of the regulations listed above. However, the source is still subject to all applicable state and local air pollution rules and regulations. Also, future construction, modification, or changes in operating procedures may require review by this office with respect to applicable permit requirements. This determination will expire if construction has not commenced by January 31, 1994.

Should the EPA exempt this project from PSD review and then subsequently determine that the project is a major source or major modification and subject to PSD, then this source will have to immediately apply for a federal PSD permit. All requirements of the PSD regulations will have to be satisfied even though construction may be complete. In the event that vendor guaranteed emission rates are not achieved, it will still be the source's responsibility to comply with all PSD requirements. Failure to comply with the requirements of the PSD regulations or continued operation of such a source prior to receiving a final PSD permit may subject the source to federal enforcement action pursuant to Section 113 of the Clean Air Act.

If you have any questions regarding this matter, please contact Bob Baker of our New Source Section at (415) 744-1258.

Sincerely,

Ka Bryos

for David P. Howekamp
Director
Air and Toxics Division

cc: CARB
SCAQMD
Gary Rubenstein, Sierra Research

APPENDIX N

BIOLOGICAL ASSESSMENT

BIOLOGICAL ASSESSMENT
FOR THE
EAGLE MOUNTAIN LANDFILL PROJECT

Prepared for

BUREAU OF LAND MANAGEMENT
63500 GARNET AVENUE
PALM SPRINGS, CA 92258

Prepared by

DAVID N. LAWHEAD
ECOLOGIST

Gerald A. Scheid

GERALD A. SCHEID
ECOLOGIST

RECON
Regional Environmental Consultants
7460 Mission Valley Road, San Diego, CA 92108 (619) 542-1611

RECON NUMBER 2100B
APRIL 8, 1992

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I. INTRODUCTION

A biological assessment report is a federal document used by the Bureau of Land Management (BLM) and the U.S. Fish and Wildlife Service (USFWS) to evaluate the potential effects of the proposed action(s) on federal listed species and species proposed for federal listing, and designated and proposed critical habitat, to determine if any such species or habitat is likely to be adversely affected by the action (Federal Register, Vol. 51, No. 106, Rules and Regulations, Section 402.12, Biological Assessments). The document is also used in determining whether a formal consultation is necessary. The biological assessment is required for federal actions that are "major construction activities" which may involve effects to federal listed species in order to meet the requirements of Section 7 of the Endangered Species Act. Upon receiving an acceptable biological assessment report, the USFWS initiates the formal consultation period which culminates in the issuance of a biological opinion. The biological opinion determines whether the action is likely to jeopardize the continued existence of a listed species or result in the destruction or adverse modification of critical habitat (a jeopardy opinion); or the action is not likely to jeopardize the continued existence of a listed species or result in adverse modification to critical habitat (a no jeopardy opinion). A jeopardy biological opinion shall include reasonable and prudent alternatives, if any.

The objective of this biological assessment is to provide the BLM and USFWS with the necessary information on the anticipated impacts to federal listed species occurring or with the potential for occurrence in the project area so that a biological opinion can be issued by USFWS for the proposed action. Also included within this document are discussions on potential impacts to species listed by the State of California as threatened, endangered, or fully protected. All plant and animal species deemed significant by both federal and state agencies are discussed in this biological assessment in order to expedite federal and state review.

The proposed action involves the conversion of an existing unused open pit iron ore mine to a Class III, non-hazardous, solid waste landfill. This landfill operation would be located at the Eagle Mountain Mine in northeastern Riverside County. The federal actions of this proposal include a land exchange between the BLM and Kaiser Steel Resources, Inc., as permitted under the Federal Land Policy and Management Act (FLPMA), and the issuance of new FLPMA rights-of-way over the entire length of the existing Eagle Mountain rail line, which would be reactivated, for the existing Eagle Mountain Road, and the proposed Eagle Mountain Road extension.

Decisions made regarding the effects of the proposed action on federal and state listed species were based upon information contained in the environmental review document (Environmental Impact Statement [EIS]/Environmental Impact Report [EIR]) for the action (RECON 1991). This environmental document summarizes the results of on-site surveys of the affected area, information provided by local experts and literature review, an analysis of the effects of the proposed action on listed species including their habitats, cumulative effects, related research studies, an analysis of alternative actions, and discussions with representatives of BLM, California Department of Fish and Game (CDFG), U.S. Park Service, and USFWS during the informal consultation period.

II. DESCRIPTION OF THE PROPOSED ACTION

A. NEED FOR THE PROJECT

The need for this project encompasses three areas: (1) to develop new Class III, non-hazardous, solid waste disposal facilities necessary to accommodate estimated future demand throughout southern California; (2) to provide landfill capacity in a remote desert setting which avoids land use compatibility and landfill gas emission problems faced by existing landfills in proximity to residential and other urban uses; and (3) to conduct a public/private land exchange which benefits the public's interest by bringing into public ownership lands of greater biological resource value.

In terms of supply and demand, a number of publications have documented the need for new disposal facilities in Los Angeles, San Bernardino, Riverside, and Orange counties. This information is summarized as follows.

Currently, a total of 45,000 tons-per-day (tpd) of municipal solid waste is generated within Los Angeles County. Of this total, approximately 18,000 tpd comes from the City of Los Angeles and 8,000 tpd from the San Gabriel Valley. If no new landfills are developed, existing facilities are not expanded, and recycling remains at approximately existing levels, a county-wide capacity shortfall will first occur in 1991, increasing to approximately 40,000 tpd in 1995 (City of Los Angeles, County of Los Angeles, and Los Angeles County Sanitation Districts 1988). The City of Los Angeles is already experiencing a shortfall of 5,000 tpd, which is expected to increase to 20,000 tpd in 1997 (City of Los Angeles, County of Los Angeles, and Los Angeles County Sanitation Districts 1988).

State Legislation AB 939, a recently-enacted ordinance requiring mandatory curbside recycling for residential solid waste, is expected to reduce the severity of the shortfall in Los Angeles as this program is phased in over the next few years. Historically, successful curbside collection programs have resulted in the diversion of 12 to 15 percent of the residential waste stream from landfills. If these results are achieved in Los Angeles, curbside collection may result in the diversion of 900 tons per year. This savings would reduce the total waste landfilled in the City by five percent. Additional savings will be achieved as the City implements planned yard waste composting and other diversion programs.

As of 1987, the valley area of San Bernardino County (with 80 percent of the county's total population) was generating and disposing of approximately 3,900 tpd of municipal solid waste in five publicly owned landfills. If per capita waste generation increases at the same rate as elsewhere in southern California, existing capacity may be exhausted in approximately six years. The County is evaluating the potential to expand an existing landfill and to site new facilities to meet its long-term disposal needs (Southern California Association of Governments 1988:1-16).

The Riverside County Solid Waste Management Plan (CoSWMP) estimates total solid waste generation in the county in 1990 at 1,560,000 tons per year. On a six-day per week basis, this means that slightly more than 5,000 tpd are landfilled in the County. The CoSWMP projects that waste generation will almost double between 1987 and the year 2005. This projection is based almost entirely on projected growth and a constant rate of per capita waste generation. Although projects other than Eagle Mountain could conceivably meet future demand within Riverside County, the Board of Supervisors has reserved up to 2,000 tpd in its existing agreement with the project applicant. The El Sobrante, Lamb Canyon, and Eagle Mountain landfill sites are tentatively identified as future disposal sites in the CoSWMP (County of Riverside 1989:XI-40).

Of all the southern California counties, Orange County has the most permitted disposal capacity relative to anticipated demand. At the current waste disposal rates of approximately 12,900 to 16,100 tpd, the permitted capacity of existing landfills will last for approximately 11 years. The recent approval of a new major landfill at Bee Canyon will increase the site life of existing facilities to approximately 18 years. The County is currently attempting to site a new facility in the northern portion of the county to replace the existing Olinda Landfill. Without this new facility, however, a capacity shortage within northern Orange County may occur in 1994, when the remaining capacity at the Olinda Landfill is fully utilized (County of Orange 1988:3-2).

B. ENVIRONMENTAL SETTING

The proposed project site is located along the northern edge of the Colorado Desert (Figures 1 and 2). The Colorado Desert is considered a northwestern extension of the Sonoran Desert, extending into Arizona, Baja California, and Sonora, Mexico. Features of the Colorado Desert are the Salton Basin, comprising the undrained Salton Sea, and the plains and bajadas of the lower Colorado River Valley. General geological features of the area surrounding the project site are north to northwest trending mountain ranges with alluvium-filled basins and drainages between the ranges. A large number of Colorado Desert plants also occur in the Mojave Desert and Arizona Sonoran Desert. However, several species only occur in the lower elevations of the Colorado Desert. Reduced summer rainfalls in the Colorado Desert limit the characteristic diversity and number of tree species compared to that found in the eastern portions of the Sonoran Desert.

Habitat Management Areas (HMAs), managed by the BLM, occur in the vicinity of the proposed project (Figure 3). BLM HMAs include desert tortoise habitat in the Chuckwalla Bench and Chuckwalla Valley, and three Nelson's bighorn sheep management areas. Two BLM Areas of Critical Environmental Concern (ACEC) are also in the vicinity of the proposed project boundary, south of I-10. The Kaiser railroad right-of-way passes through the western extent of the Chuckwalla Bench ACEC, which has been established primarily for protection of the desert tortoise, and the Salt Creek ACEC near Ferrum Junction, which has been set aside to protect the desert pupfish and Yuma clapper rail.

The proposed landfill site consists of 4,659 acres of private and public lands in the Eagle Mountains, and is comprised of rugged mountain terrain including the old mine pit, and tailing and overburden piles surrounding the open pit mine. Elevations range from 2,800 feet in the northeast portions of the site to 710 feet in the bottom of the mine pit. Elevations on the bajadas in the eastern and southern portions of the site range from 1,234 feet in the southwestern corner to 983 feet in the southeastern corner.

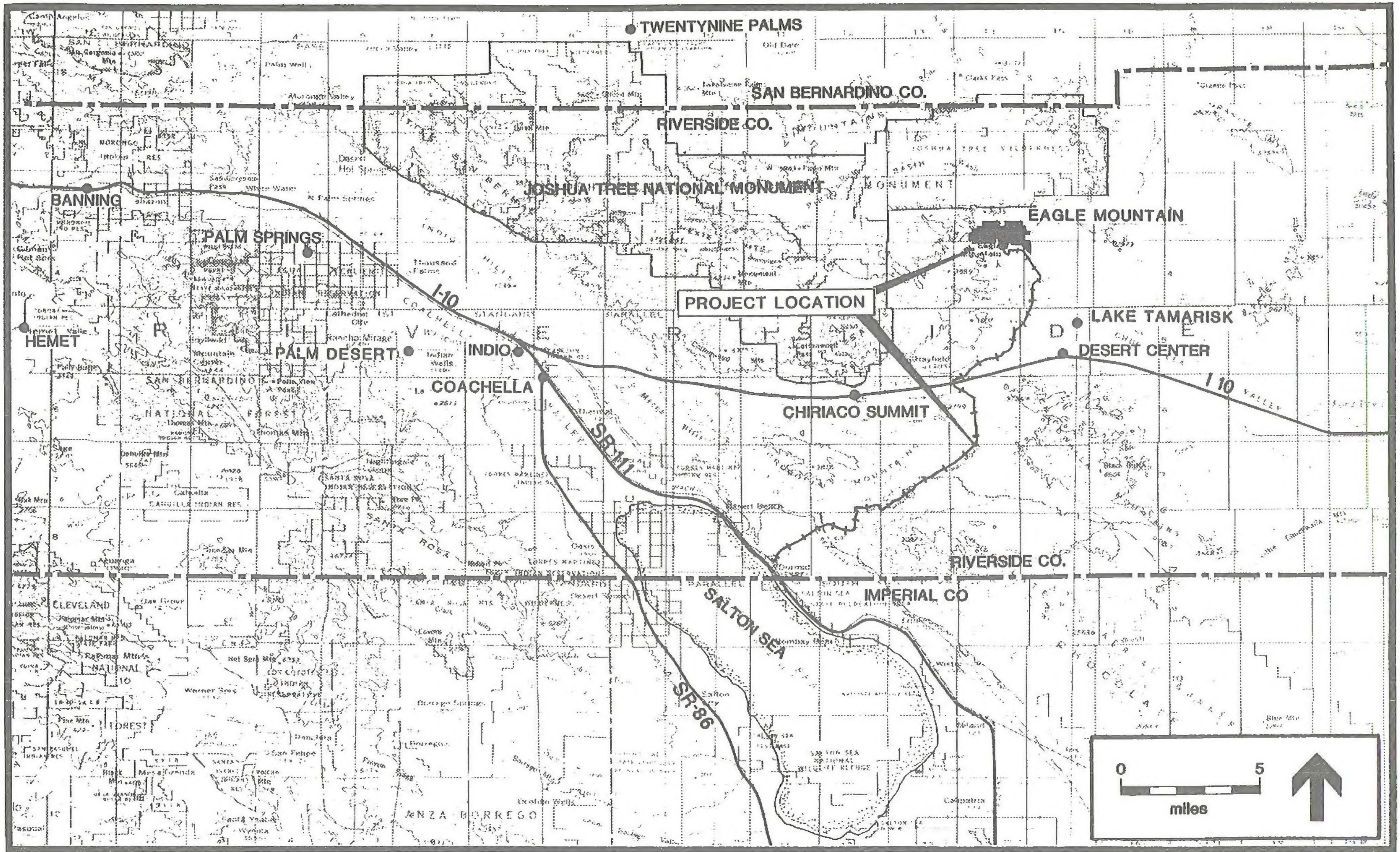

FIGURE 1. PROJECT LOCATION RELATIVE TO EASTERN RIVERSIDE COUNTY

RECON

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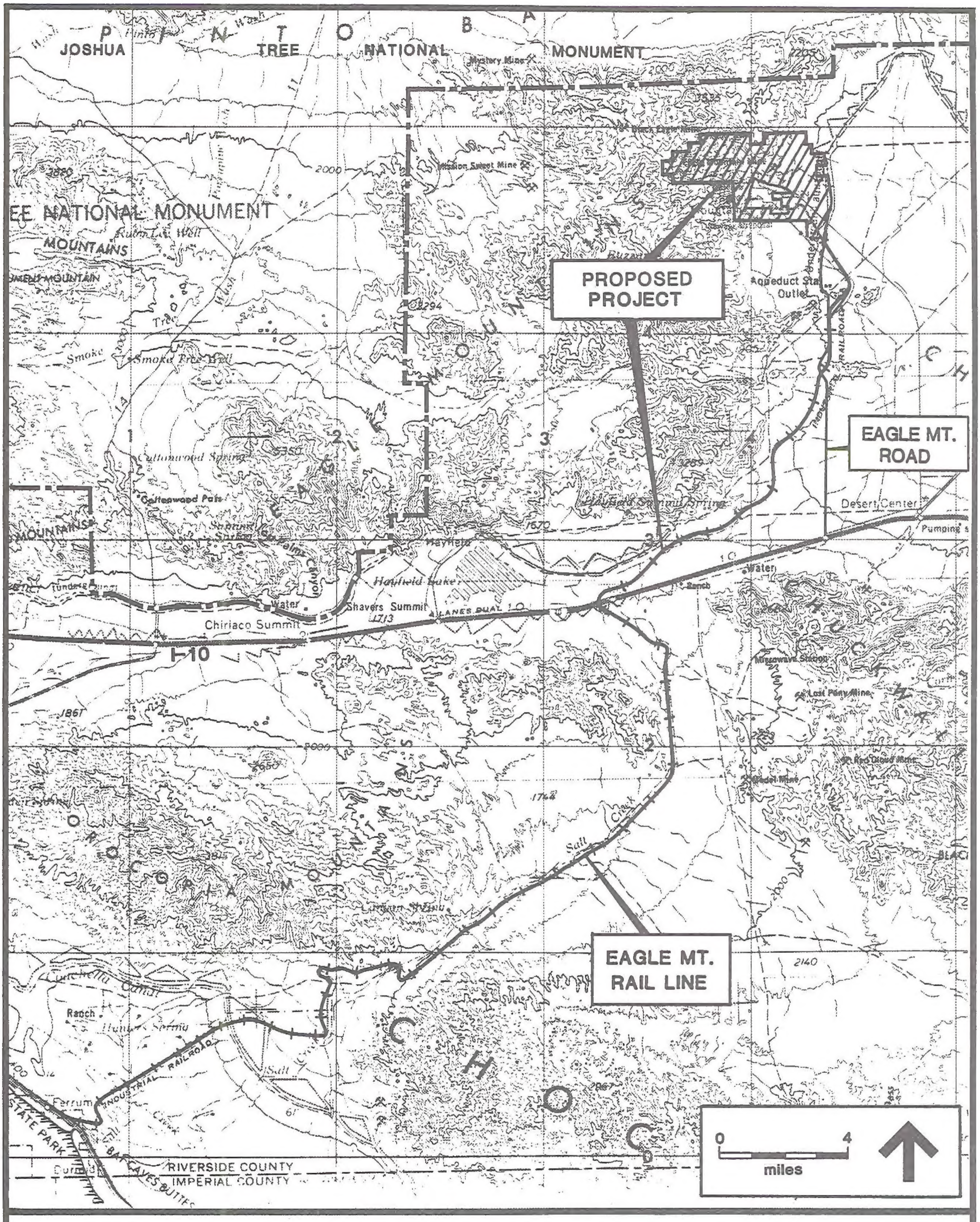

FIGURE 2. PROJECT LOCATION ON U.S.G.S. 1:250,000 SCALE MAP, SALTON SEA SHEET

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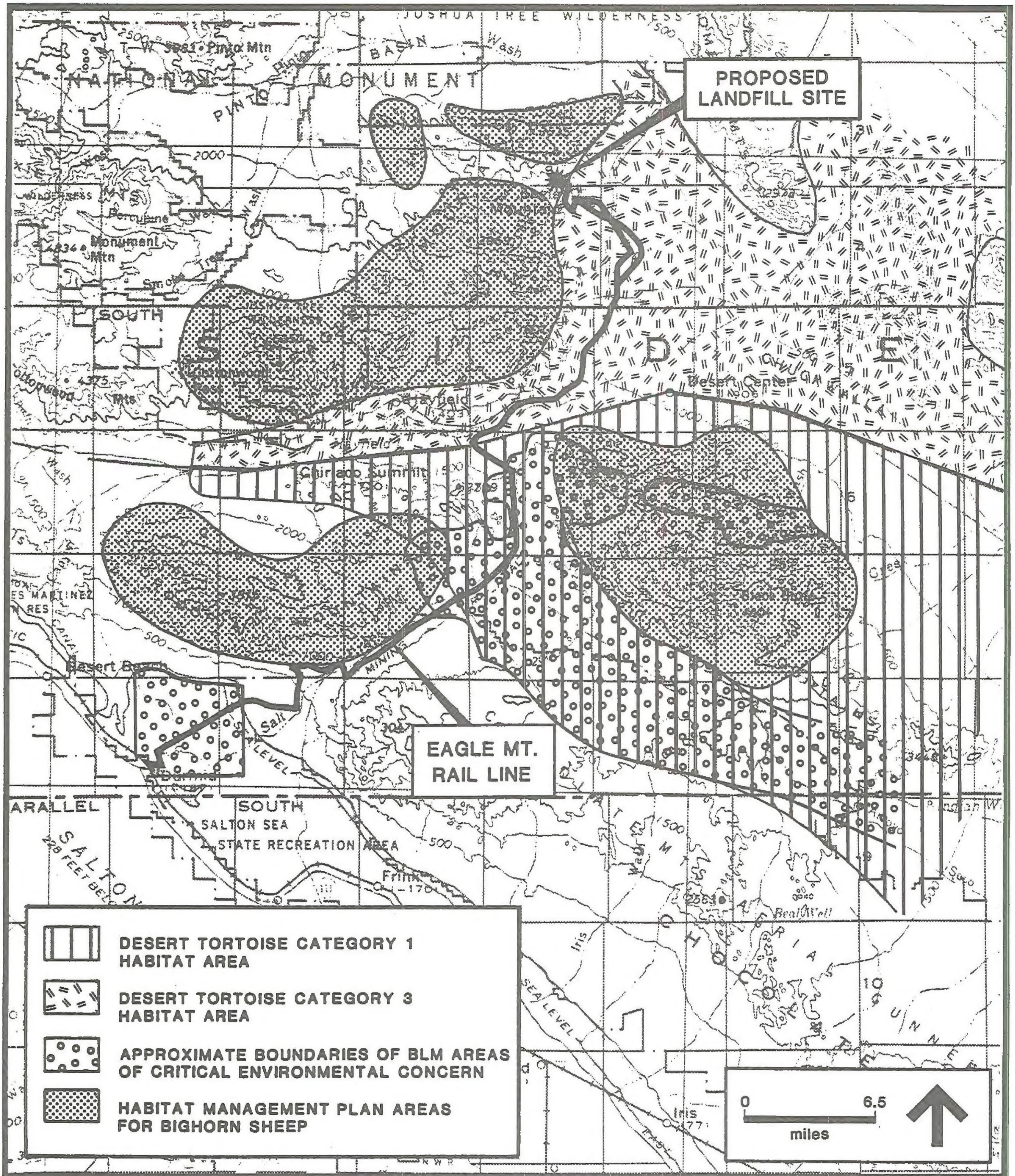

FIGURE 3. HABITAT MANAGEMENT AREAS

Eagle Mountain Road and the Eagle Mountain rail line traverse the bajadas of the eastern edge of the Eagle Mountains. The bajadas drain from west to east. The railroad continues southwest of the Eagle Mountains and crosses Chuckwalla Valley and I-10. From the freeway, the railroad continues south through the Chuckwalla Bench area and then runs between the Orocopia and Chuckwalla mountains along Salt Creek. The railroad follows the Salt Creek drainage between the Orocopia and Chocolate mountains heading in a southwesterly direction until the railroad connects with the Southern Pacific Railroad line at the northeast edge of the Salton Sea, at Ferrum Junction. Elevation along the Kaiser railroad remains at approximately 1,500 feet until the railroad reaches Salt Creek. Elevation drops steadily to a low of 149 feet below sea level near the Salton Sea. Topography along the railroad is flat or gently sloping alluvial fans.

Drainage patterns on the Eagle Mountain landfill site generally flow from west to east, creating steep washes and drainages throughout the undisturbed portions of the site. South of Chuckwalla Valley, drainages flow from the Orocopia and Chuckwalla mountains and form alluvial fans descending toward Salt Creek. Salt Creek flows southwest, draining into the Salton Sea approximately one mile south of the Eagle Mountain rail line connection at Ferrum Junction. Many sandy, gravelly washes of varying sizes cross under the railroad from Chuckwalla Valley to the area where the railroad crosses the Coachella Canal.

Surface features within the mine area, along the Eagle Mountain railroad right-of-way and along the proposed Eagle Mountain Road extension, range from sandy washes to steep, rock-covered slopes. Some of the flat areas on the upper bajadas have little soil and desert pavement predominates. The mountain areas are composed of metasedimentary and granitic rocks. The eastern portion of the proposed landfill area is located within a valley composed of sedimentary soils of predominantly sand and gravel deposits derived from the surrounding mountains.

The vegetation within the survey limits of the project can be ascribed to three general plant communities: Sonoran creosote bush scrub, desert dry wash woodland, and desert chenopod scrub. Plant community names and descriptions follow those used by California Department of Fish and Game (CDFG) (Holland 1986). Elements from both the Mojave and Colorado deserts (a division of the Sonoran Desert) are represented in the flora due to the location of the project within the transition zone between these two desert regions. Habitat categories are discussed in detail in the Eagle Mountain Landfill EIS/EIR (RECON 1991), and vegetation maps of the project area are shown on Figures 4a-b, Figure 5, and Figures 6a-e.

C. PROPOSED ACTION

1. General Project Description

Mine Reclamation Corporation (MRC) proposes to develop a municipal solid waste Class III landfill which would accommodate up to 20,000 tons per day. The landfill site would be located in an unused iron ore open pit mine at Eagle Mountain in northeastern Riverside County, California. The existing mine at Eagle Mountain is located on approximately 4,659 acres, of which 2,280 acres are under public ownership. These lands will be transferred out of federal

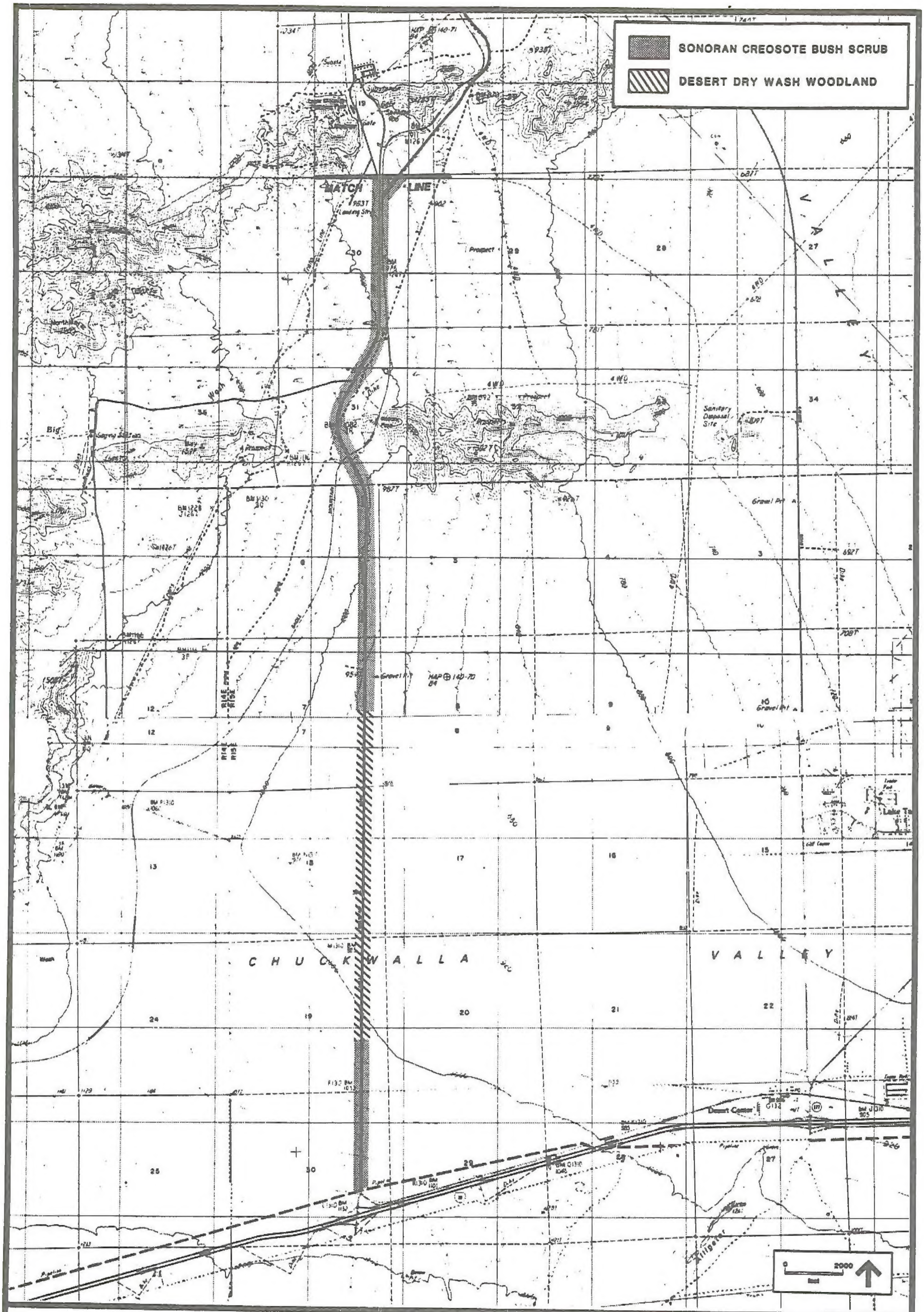

FIGURE 4a. EXISTING VEGETATION ON EAGLE MOUNTAIN ROAD AND SPUR LOCATION

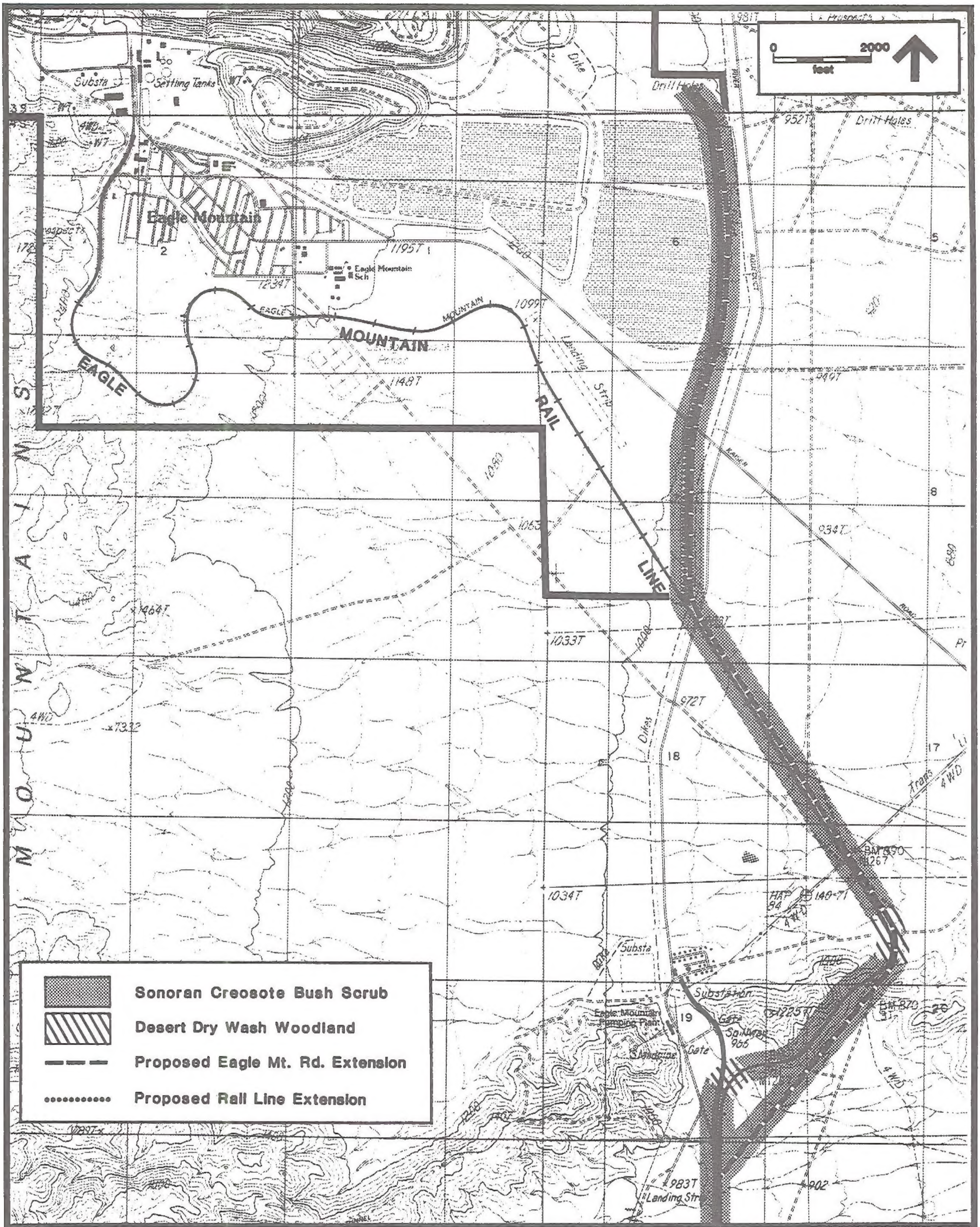

FIGURE 4b. EXISTING VEGETATION ON EAGLE MOUNTAIN ROAD EXTENSION AND RAILROAD SPUR

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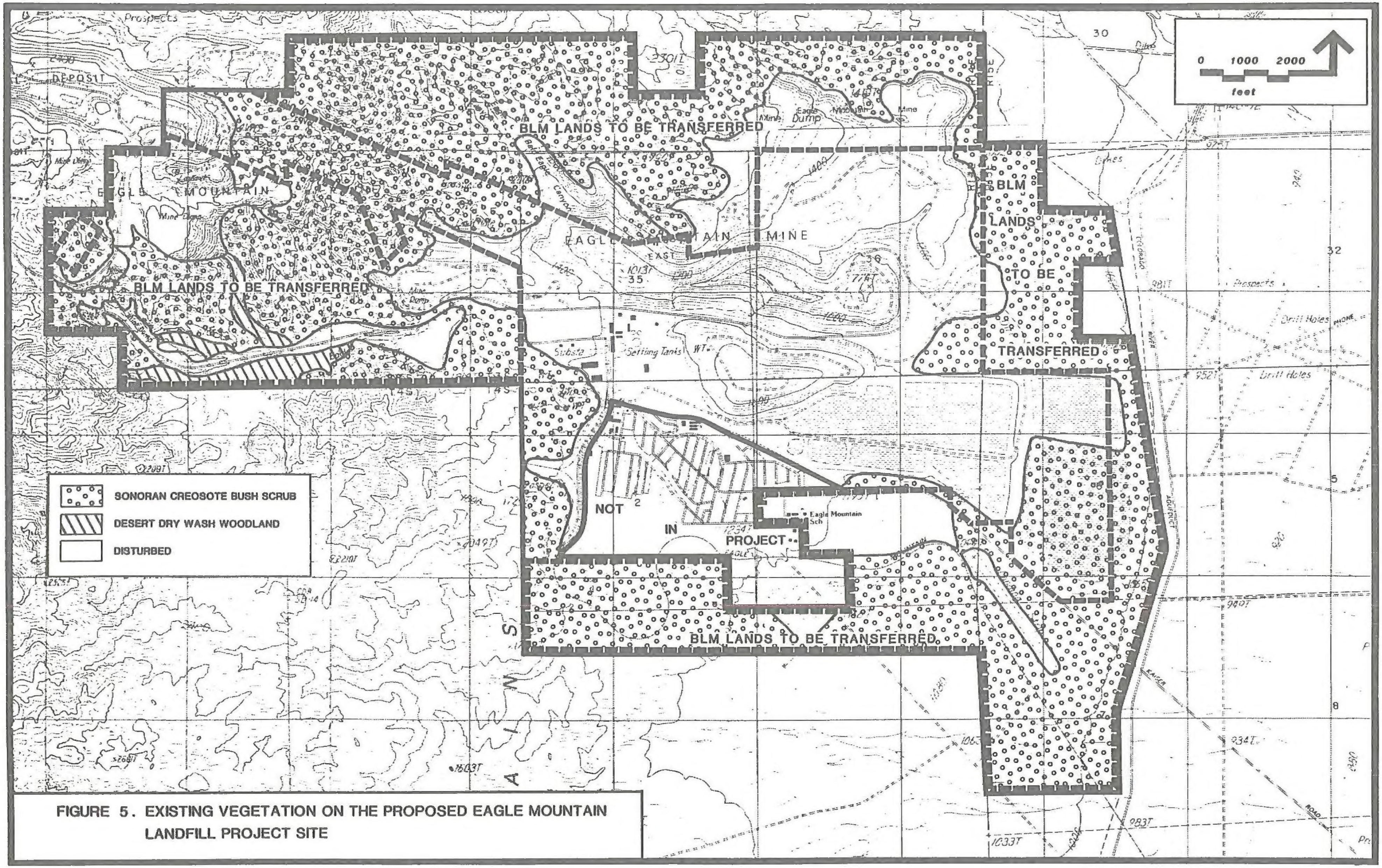

FIGURE 5. EXISTING VEGETATION ON THE PROPOSED EAGLE MOUNTAIN LANDFILL PROJECT SITE

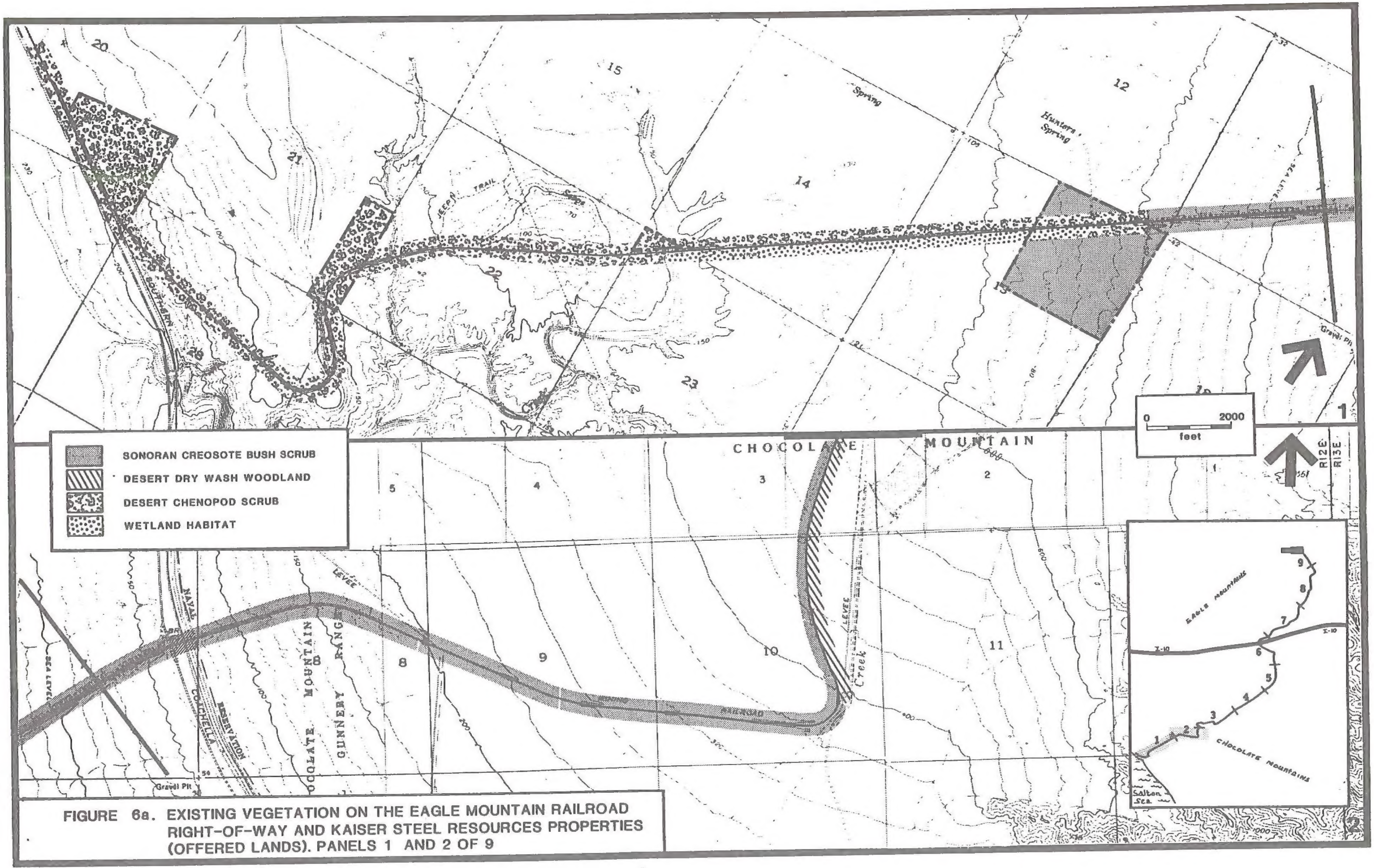

FIGURE 6a. EXISTING VEGETATION ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY AND KAISER STEEL RESOURCES PROPERTIES (OFFERED LANDS). PANELS 1 AND 2 OF 9

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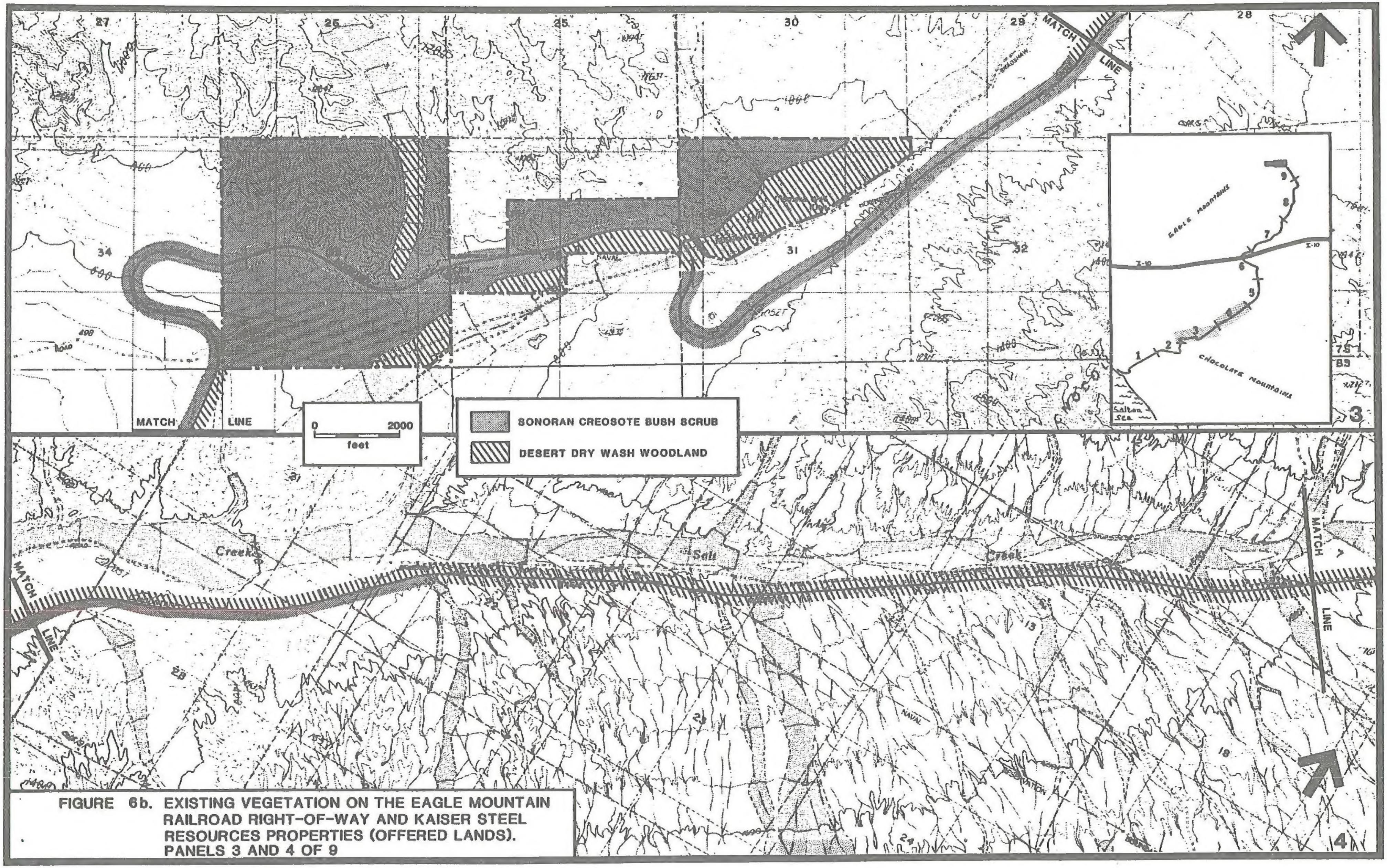

FIGURE 6b. EXISTING VEGETATION ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY AND KAISER STEEL RESOURCES PROPERTIES (OFFERED LANDS). PANELS 3 AND 4 OF 9

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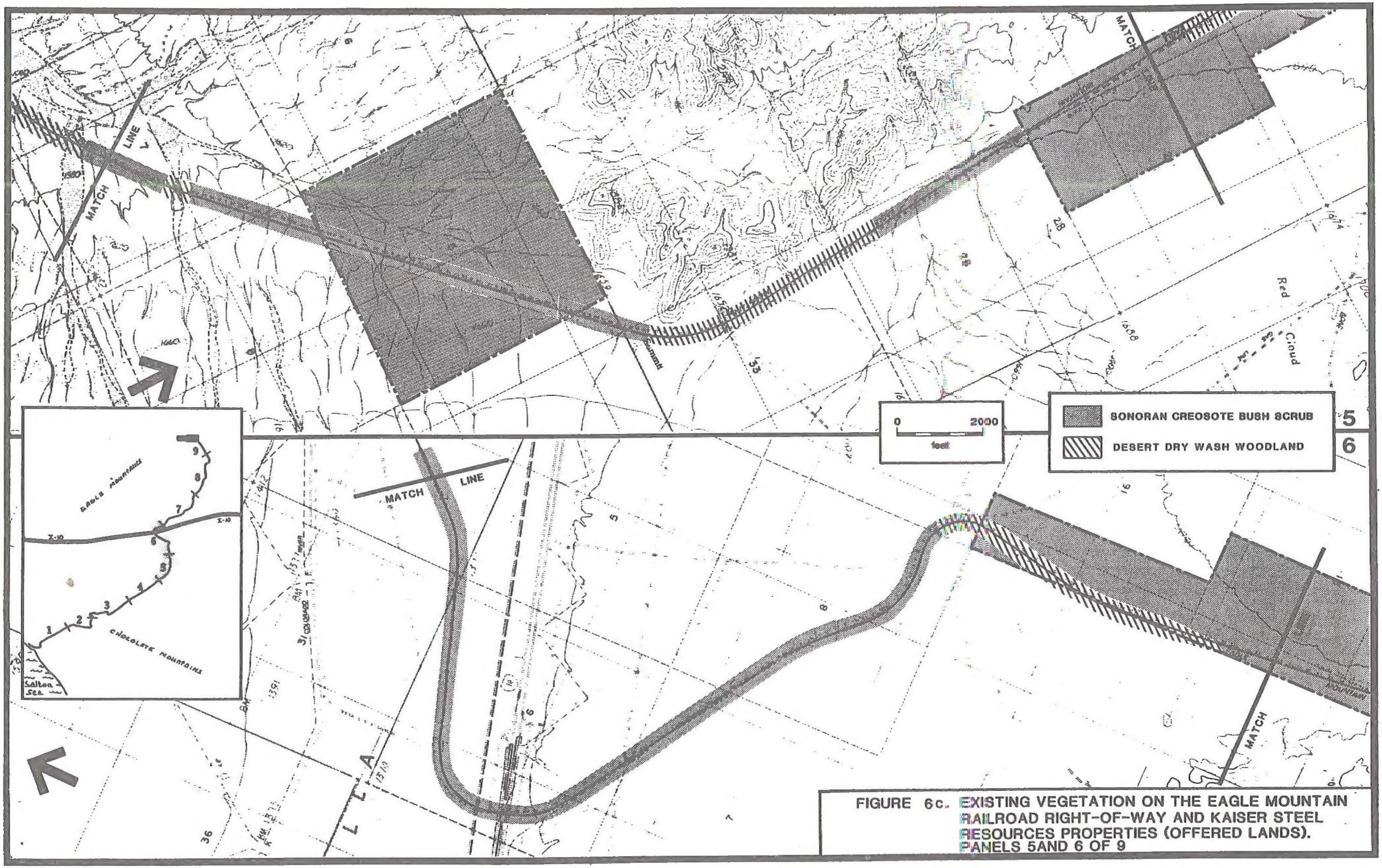

FIGURE 6c. EXISTING VEGETATION ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY AND KAISER STEEL RESOURCES PROPERTIES (OFFERED LANDS). PANELS 5AND 6 OF 9

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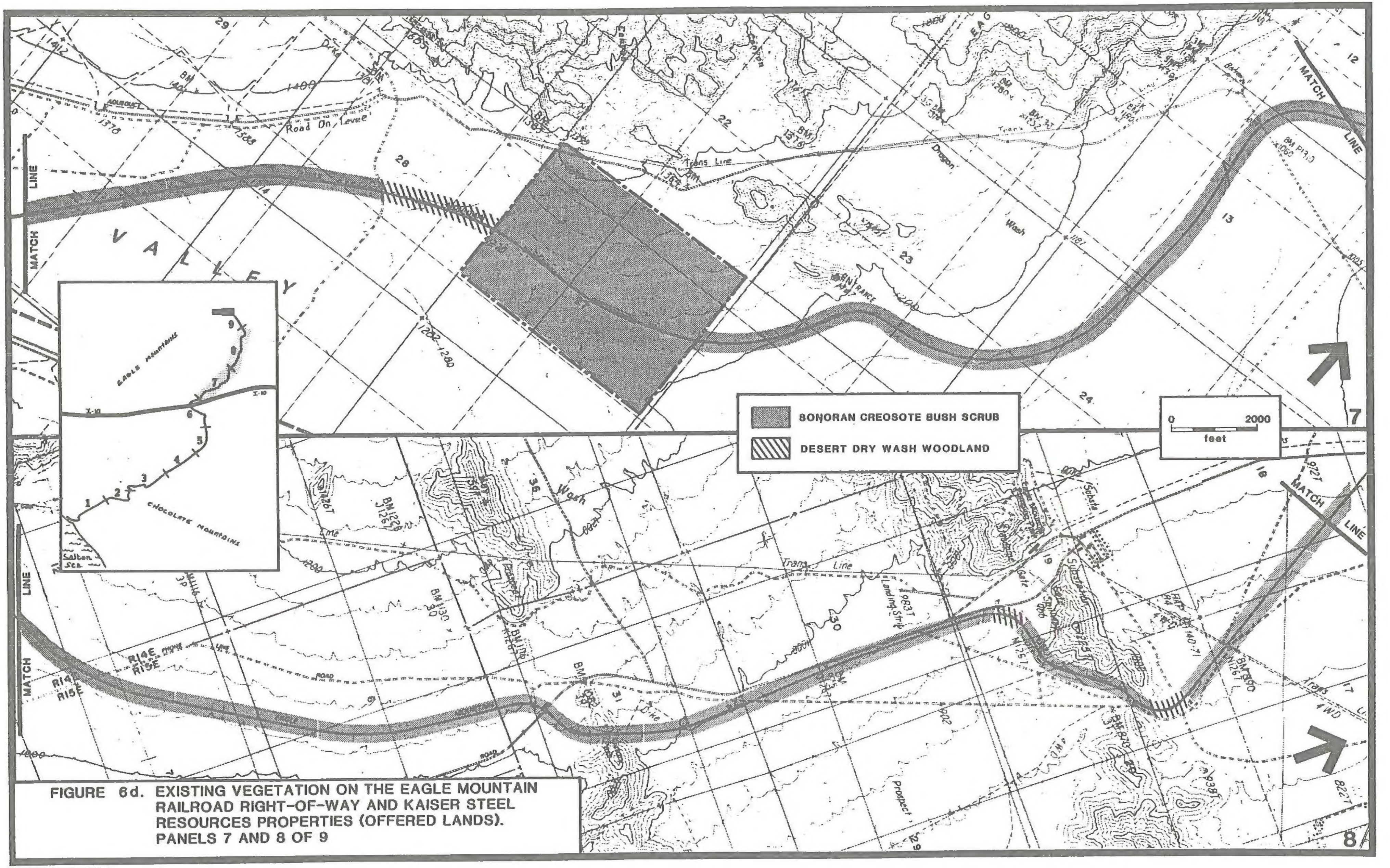

FIGURE 6d. EXISTING VEGETATION ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY AND KAISER STEEL RESOURCES PROPERTIES (OFFERED LANDS). PANELS 7 AND 8 OF 9

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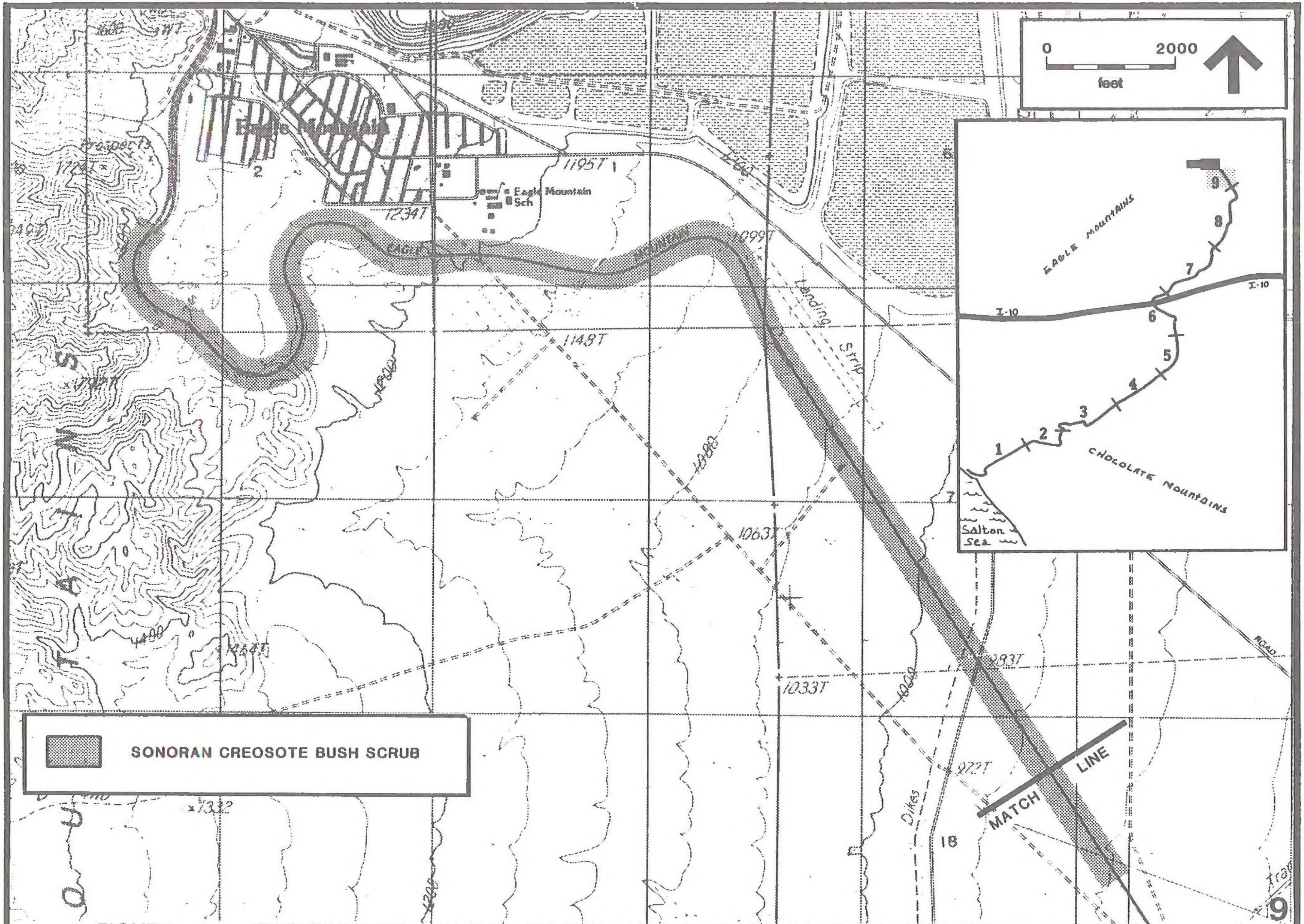


FIGURE 6e. EXISTING VEGETATION ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY, PANEL 9 OF 9

ownership to Kaiser Steel Resources, Inc., in exchange for lands owned by Kaiser along the existing Kaiser railroad. The project includes the updating of the railroad right-of-way granted to Kaiser Steel for mining uses between Ferrum Junction on the northeast coast of the Salton Sea and Eagle Mountain. This rail line is approximately 52 miles long, 32 miles of which exist on a legislatively authorized right-of-way, and would be used to transport waste-filled containers from the Southern Pacific line at Ferrum Junction to the project site. A new rail spur, approximately two miles long, would be built from the Eagle Mountain rail line to a container handling yard located near the southeast portion of the landfill site.

Waste received by truck would access the site via a proposed extension of Eagle Mountain Road and a proposed on-site haul road. A new FLPMA right-of-way would be issued over the entire length of the existing, legislatively approved Eagle Mountain railroad right-of-way and the proposed Eagle Mountain Road extension north from its intersection with Eagle Mountain Road. Additionally, the Eagle Mountain Landfill Specific Plan (SP) would amend the Riverside County General Plan, Zoning Ordinance, and Zoning Map to facilitate initiation of a landfill operation at the Eagle Mountain iron ore mine site.

2. BLM/Kaiser Steel Resources, Inc. Land Exchange

Federal lands currently within the project area are designated in the California Desert Conservation Area (CDCA) Plan, as being in the following Multiple-Use Classes: Class I - Intensive, Class M - Moderate, and Unclassified. Under the FLPMA, BLM will select those lands to be transferred to Kaiser Steel Resources, Inc. Land currently owned by Kaiser Steel Resources, Inc., will be offered in exchange for those selected lands.

a. Selected Lands. Under FLPMA, BLM will transfer approximately 3,271 acres of publicly owned lands in the Eagle Mountains to Kaiser Steel Resources, Inc. (see Figure 5). These selected lands include both unencumbered parcels and lands with a variety of unpatented mining and mill site claims. The land exchange process will include a review and appraisal of these claims.

b. Offered Lands. Offered lands are those Kaiser Steel Resources lands to be transferred to federal ownership. These are generally located along Salt Creek and the entire length of the Eagle Mountain rail line from Ferrum Junction (on the northeast coast of the Salton Sea) to just north of I-10 (see Figures 6a-e). Some of these lands include prime habitat for the federally and state-threatened desert tortoise.

3. FLPMA Railroad and Road Right-of-Way Grants

a. Eagle Mountain Road. The existing Eagle Mountain Road extends from the I-10 interchange to the MWD pumping station. The road begins in SE1/4 Sec. 30, T. 5 S., R. 15 E., San Bernardino Meridian (SBM), and runs almost due north ending in NE1/4 Sec. 30, T. 4 S., R. 15 E., SBM. The paved road is currently maintained by the County of Riverside; however, there is no current right-of-way authorization other than that acquired under RS 2477 for pre-1976 use. The proposed action is to widen the existing 20-foot paved road to a 40-foot-wide paved road. The total right-of-way being applied for is 110 feet wide to allow for the paved roadway, shoulders, and berms. This portion of the right-of-way is approximately seven miles long. The purpose of this road right-of-way is to serve as the main access route to the proposed landfill site.

b. Eagle Mountain Road Extension. The proposed Eagle Mountain Road extension will begin in NE1/4 Sec. 30, T. 4 S., R. 15 E., SBM, just south of the MWD pumping station and will continue northeasterly at first and then north-westerly before heading northerly to an existing landfill on-site haul road. Approximately one and one-half miles of this proposed route are currently authorized under right-of-way grant LA-0121701 for mining-related purposes only. This partially existing dirt road is approximately 15 to 18 feet wide in most areas and is known locally as the Kaiser Truck Trail. This portion of the truck trail will be converted to a FLPMA right-of-way. The remainder of the Kaiser Truck Trail, currently authorized under right-of-way grant LA-0121701, will be vacated.

The proposed action is to widen the existing portion and build a new 40-foot-wide paved road. The total right-of-way being applied for is 110 feet wide to allow for the paved roadway, shoulders, and berms. This proposed portion of the right-of-way is approximately six miles long. The purpose of this road extension is to lead the truck traffic hauling refuse to the proposed landfill around the townsite of Eagle Mountain into the proposed Phase I container handling yard (see Figure 12) and at a later date into the Phase II container handling yard (see Figure 13).

c. Rail Line. This existing 52-mile private rail line begins at its intersection with the Southern Pacific line at Ferrum Junction and runs north to a mine site at Eagle Mountain. Approximately 33 miles of the rail line falls on BLM lands. The rail line is authorized under right-of-way grant LA-0121701 for mining-related activities only. This right-of-way will be converted to an FLPMA right-of-way. The purpose of this right-of-way is to allow train transport of trash containers from the Southern Pacific line at Ferrum Junction to the proposed Phase I container handling yard and/or repair and maintenance facility. No more than one train per day would use this route. At a later date, up to six trains per day will be routed around the Eagle Mountain townsite into the proposed Phase II container handling yard via a rail line spur discussed below.

d. Rail Line Spur. A proposed new rail line spur will begin just past the location where the proposed Eagle Mountain Road extension and the existing railroad cross the Colorado River Aqueduct in S1/2S1/2 Sec. 7, T. 4 S., R. 15 E., SBM, and runs northerly to the proposed Phase II container handling facility in W1/2 Sec. 31, T. 3 S., R. 15 E., SBM. This portion of the right-of-way is approximately two and one-half miles long. The purpose of this spur is to route traffic around the townsite of Eagle Mountain into the proposed Phase II container handling yard.

4. Riverside County Plan Amendment

The Eagle Mountain Landfill Specific Plan (SP) would amend the Riverside County General Plan, Zoning Ordinance, and Zoning Map to facilitate initiation of a landfill operation at the Eagle Mountain iron ore mine site. Current land use designations found on the Open Space and Conservation Map of the Riverside County General Plan which affect the project site include mineral resources, desert areas, mountainous areas, and areas not designated as open space (ANDOS). Those categories will be replaced by a SP designation supported by the SP exhibits and text. Current zoning of the site includes the following districts: Mineral Resources and Related Manufacturing (M-R-A), Controlled Development Area (W-2), Natural Assets (N-A), and Manufacturing-Heavy (M-H). These individual zones will be replaced by a SP zone designation supported by an ordinance text, which can be found in Section III of the SP. The SP zone is being created to support the addition of landfill and associated land uses on the project site.

5. Project Operations

A typical day's operation involves the following sequence which reoccurs throughout the day:

- A fully-loaded train will arrive at the marshalling yard. An overhead container-handling crane will position itself over the train and unload filled containers onto the container handling vehicles.
- The container handling vehicles will haul the containers to the working face of the landfill where they will tip up the containers, discharging the refuse.
- Bulldozers and refuse compactors will move, spread, and compact the refuse.
- The empty containers will be returned to the marshalling yard, where they will be inspected prior to loading back on the train (either the same train they came from or another, depending upon the scale of operations). Damaged containers, or those scheduled for washing or periodic maintenance, will be delivered to the container maintenance area.
- When the train is fully loaded with empty containers, it will return to Ferrum Junction.
- Trucks carrying containers will be unloaded in a similar manner to trains, with the containers being hauled to the operating face on container handlers. Some standard transfer trucks that have an integral cargo box will drive under their own power to the operating face and be emptied by end dumping or by tipper.

Additional operations that will occur to support the above activities include the following:

- Road maintenance will involve the use of motor graders for the smoothing and leveling of unpaved haul roads. Water trucks will spread water on unpaved haul roads for dust control. Paved haul roads will be periodically cleaned with a road sweeper to reduce dust.
- Landfill preparation will involve preparation of areas by bulldozer leveling by scraper and grader, placement of crushed

rock or other material for contouring the cell, placement of the clay liner and placement of the synthetic liner where needed.

- Maintenance activities for equipment will include shop maintenance of mobile equipment; field preventive maintenance, lubrication, and fueling of mobile equipment; and container washing and maintenance as needed.

- At the end of an operating day, daily cover (coarse tailing or crushed overburden) will be transported by truck or scraper to the active working face(s) for placement over the day's refuse. This will be spread in layers at least six inches thick as per operating permit requirements. Water sprays may be used during the recovery of the cover from stock piles or during crushing for dust control.

- Drainage control works will be constructed periodically by preparing ditches, trenches, or other works to channel and direct runoff water away from the landfill.

- Leachate control and landfill gas collection piping will be installed to intercept and collect these fluids for treatment.

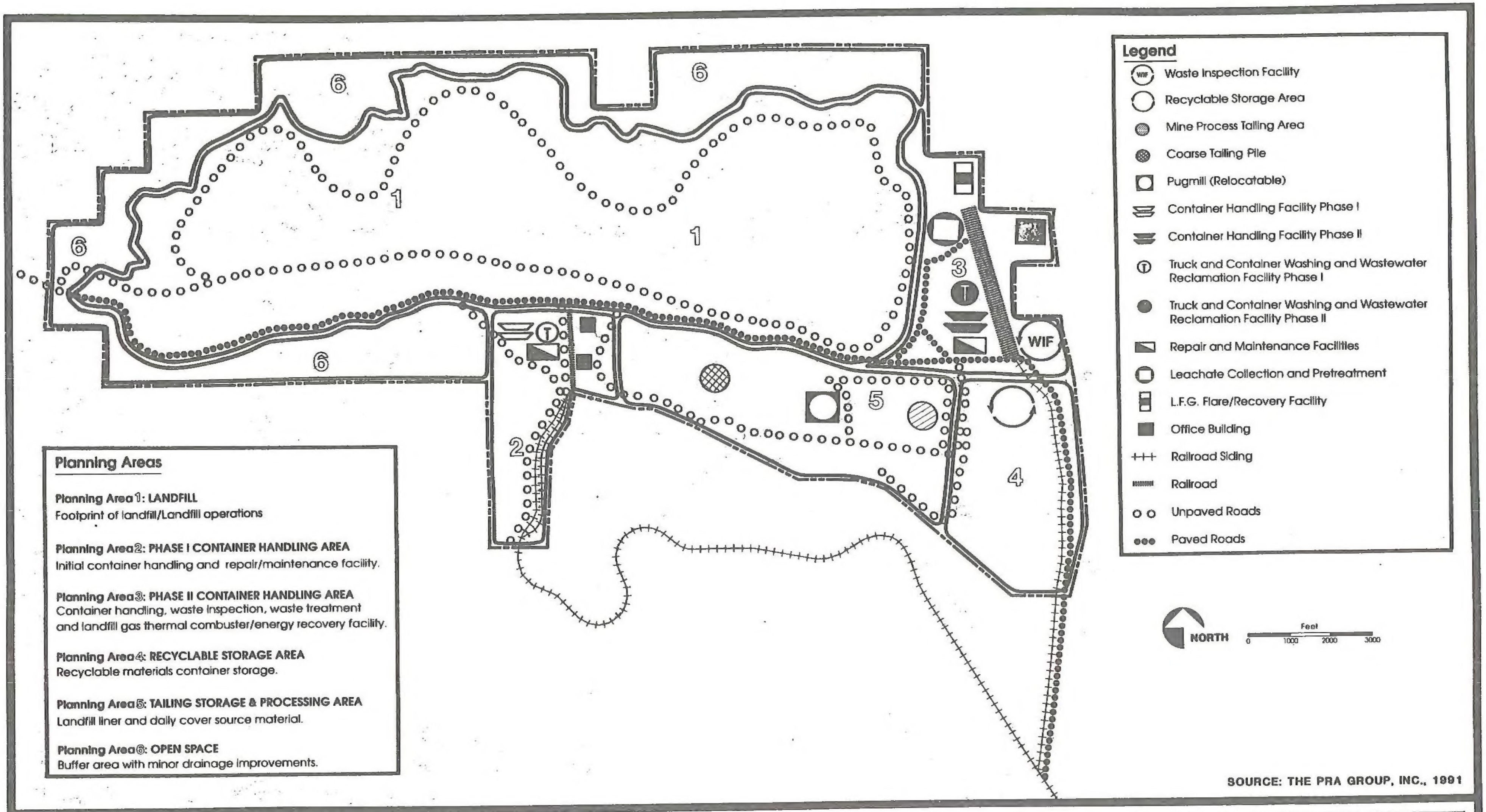
- Litter control crews will provide litter pickup and the movement of portable litter control fencing.

- Locally derived refuse will be inspected for hazardous materials and loaded into containers for delivery to the landfill face. Hazardous materials will be collected, temporarily stored (with the appropriate permits), and then transported off-site to a licensed hazardous waste disposal facility.

a. Landfill Site Facilities. Figure 7 shows the Eagle Mountain Specific Plan Area which is divided into six planning areas. These areas are described below.

Planning Area	Use	Acreage	Percentage of Site
1	Landfill Area	2,272	48.8
2	Container Handling - Phase I	255	5.5
3	Container Handling - Phase II	340	7.3
4	Recyclable Storage Area	322	6.9
5	Coarse and Fine Tailing Storage and Process Area	465	10.0
6	Open Space	1,005	21.6
TOTAL		4,659	100.0

The facilities associated with each planning area are described below.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WIF
Legend
Waste Inspection Facility
Recyclable Storage Area
Mine Process Tailing Area
Coarse Tailing Pile
Pugmill (Relocatable)
Container Handling Facility Phase I
Container Handling Facility Phase II
Truck and Container Washing and Wastewater Reclamation Facility Phase I
Truck and Container Washing and Wastewater Reclamation Facility Phase II
Repair and Maintenance Facilities
Leachate Collection and Pretreatment
L.F.G. Flare/Recovery Facility
Office Building
Railroad Siding
Railroad
Unpaved Roads
Paved Roads
NORTH
Feet
0
1000
2000
3000

Planning Areas

Planning Area ①: LANDFILL
Footprint of landfill/Landfill operations

Planning Area ②: PHASE I CONTAINER HANDLING AREA
Initial container handling and repair/maintenance facility.

Planning Area ③: PHASE II CONTAINER HANDLING AREA
Container handling, waste inspection, waste treatment and landfill gas thermal combuster/energy recovery facility.

Planning Area ④: RECYCLABLE STORAGE AREA
Recyclable materials container storage.

Planning Area ⑤: TAILING STORAGE & PROCESSING AREA
Landfill liner and daily cover source material.

Planning Area ⑥: OPEN SPACE
Buffer area with minor drainage improvements.

SOURCE: THE PRA GROUP, INC., 1991

FIGURE 7. PROPOSED LANDFILL SPECIFIC PLAN AREA WITH DESIGNATED PLANNING AREAS

1) Container Handling Yard. In Phase I, incoming refuse would be delivered by rail and truck to the container handling yard located south of the western portion of the East Pit. During Phase I, trains would use the existing rail line south and west of the Eagle Mountain townsite and trucks would use the Eagle Mountain Road extension constructed east and north of the townsite (see Figure 4b). The maximum capacity of the initial container handling yard would be approximately 4,750 tpd consisting of one train load of refuse per day and an additional 1,250 tpd that would be delivered by truck.

In Phase II, incoming refuse would be delivered by rail and truck to the container handling yard located approximately one-half mile from the eastern boundary of the landfill (Figure 8). Its maximum capacity would be 20,000 tons of refuse per day. The Phase I container handling yard would be converted to a repair and maintenance facility. During Phase II, trains would use a new rail line constructed east of the townsite and trucks would use the Eagle Mountain Road extension. Although the capacity of the Phase I container handling yard would be less than the Phase II container handling yard, both container handling yards would contain approximately the following:

a) Railroad Spur Lines or Sidings. Sidings, each up to 5,000 feet long, would be long enough to allow an entire unit train to be spotted without uncoupling cars and to allow locomotives to couple and uncouple at either end of the unit trains.

b) Container Handling Equipment. Large forklift-style movers would be used to move containers on and off trucks, while overhead cranes would be used to move containers on and off train cars. Both types of equipment would be fitted with pollution controls on the exhaust to achieve the lowest possible emission rates. The containers will be placed on a chassis which will be hauled to the working face of the landfill where the containers will be emptied.

c) A Waste Screening Station/Inspection Facility. This facility, located on or near the phase one container handling yard, will be capable of receiving, screening, and processing local waste from Desert Center, Lake Tamarisk, and Eagle Mountain on the order of several tons per day. All other incoming refuse will have been inspected at the loading point.

All containerized waste received in the container handling area, either by rail or truck, would be screened to detect the presence of radioactive materials and other hazardous waste. If radioactive materials are detected, intensive manual inspection of the load using hand-held detection equipment will be performed. The offending materials will be segregated from the load and stored in accordance with applicable regulations pending disposal at a licensed facility.

Marshalling operations would be conducted on a 24-hour basis. These operations include all actions involving delivering a train of cars, positioning of these cars, unloading and reloading of containers, movement of locomotives from one end of the train to the other, and removal of the train back onto the main line. Locational and low-pressure sodium lighting would be used to light these operations.

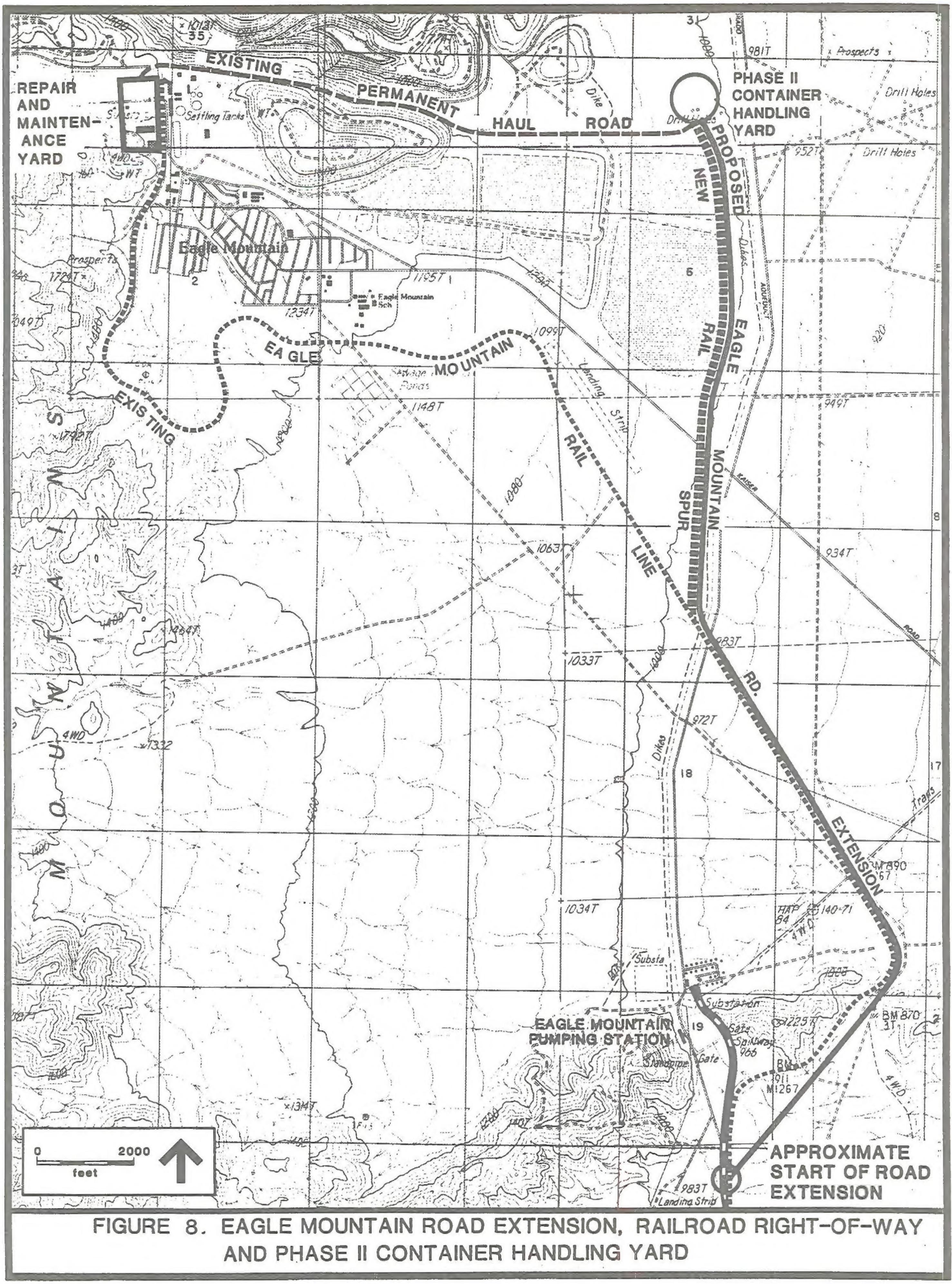


FIGURE 8. EAGLE MOUNTAIN ROAD EXTENSION, RAILROAD RIGHT-OF-WAY AND PHASE II CONTAINER HANDLING YARD

2) Energy Recovery Plant. Initially, landfill gas (LFG) recovered from the landfill will be destroyed in a thermal combustor. When detectable quantities of methane are found in the LFG, MRC will conduct studies to quantify the production rate of methane and to determine other characteristics of the gas. When a production rate of five million cubic feet per day of methane is achieved, MRC will institute studies to determine if the gas can be utilized economically. These studies will evaluate the use of gas for electrical energy production, the production of pipeline quality or liquified gas for shipment off-site, the use of gas to power on-site equipment, or the production of low-grade fuel for use at nearby facilities. If it is determined that the methane can be economically utilized, MRC will proceed with the development of an energy recovery plant.

If MRC determines that gas cannot be economically used, MRC may decide to design, permit, and construct an oxidation catalyst system and later a urea injection system (or equivalent system) for the thermal combustor before the LFG generation rate exceeds 10 million cubic feet per day of methane. These studies will be updated not less frequently than every three years.

3) Repair and Maintenance Facilities. The existing repair and maintenance buildings would continue in use to maintain the containers, locomotives, railcars, vehicles, and other equipment used on the site (see Planning Area 2 of Figure 7). When necessary, these facilities would be used to maintain and wash vehicles and containers. Containers would be transported from the container handling yard to this area, when maintenance or washing is necessary. Wash water will be collected in sumps and reused as necessary. When the water becomes fouled, it will be passed through an oil skimmer for the removal of floating oil and grease. Sludge and other solids will be settled out in a standard three-compartmented settling tank. A runoff collection system would be designed to convey runoff to a wastewater pretreatment facility. If this wastewater were found to be hazardous, the sump would be pumped into a tank truck and the water taken off site to a licensed disposal facility.

4) Wastewater Pretreatment Facility. The applicant proposes to construct a wastewater pretreatment facility to pretreat leachate, LFG condensate, and surface runoff from the repair and maintenance facility (see Planning Area 3 of Figure 7). Pretreatment would be provided for biological oxygen demand (BOD) and volatile organics. The package facility would pretreat liquids from these sources via aeration and sedimentation tanks. After pretreatment, the effluent would be transported to the existing Kaiser wastewater treatment facility.

b. Roads, Landfill Site, and Railroad Preparation. Prior to the commencement of Phase I landfill operations, several site development tasks would need to be completed. It is estimated that it will take approximately one year to complete these tasks.

1) Roads. At the start of site development, the Eagle Mountain Road extension will be constructed. This road will provide a routing for trucks as well as a new rail right-of-way that will eventually terminate in the Phase II container handling area. During Phase I and immediately after the road extension is completed, this road will be used for all truck transport into the site. Truck traffic on the Kaiser Road or the (now abandoned) Kaiser Truck Road to the site will not be permitted. Up to 50 trucks per day carrying refuse will

use the Eagle Mountain Road extension to enter the site. They will then traverse over the existing main haul road to the Phase I container handling area for off-loading of containers. Some vehicles will be directed to the landfill face for off-loading. These roads will be paved. It is estimated that approximately 150 acres of natural vegetation could be removed to widen the existing Eagle Mountain Road and to construct the Eagle Mountain Road extension. This impacted acreage figure represents a worst-case scenario, with actual impacts being less.

When a volume of more than one train per day is achieved, the new spur leading to the Phase II container handling yard will be used for train traffic. The acreage of vegetation removed to construct this new rail spur is included in the acreage lost to construction of the Eagle Mountain Road extension. The road extension and rail spur will be built adjacent and parallel to one another. Trucks will still use the Eagle Mountain Road extension for access to the site, but will be off-loaded at the Phase II area. Although the emphasis will be shifted to the Phase II area at traffic volumes greater than one train per day, the Phase I area will be kept open as a marshalling area for use as required for emergencies and maintenance. The existing rail terminus will continue to be used for the delivery of materials and supplies, for access to the maintenance buildings, and for locomotive refueling.

2) Landfill Site. The construction of additional facilities at the existing rail terminus at Eagle Mountain would be required. This would involve the construction of a new spur parallel to the existing spur, paving the area to permit the use of container-handling cranes and equipment, and construction of a vehicle scale facility. Also, the preparation of the container laydown area for recyclable storage in the unused tailing pond area would be necessary. A small tipping floor, waste sort area, and compactor would be needed to receive, inspect, and process trash from the local area.

The preparation of the landfill footprint, involving scaling, leveling, and filling of the pit, is also necessary prior to commencement of landfill operations. This includes the installation of a composite liner in portions of the east end of the landfill, and the installation of preliminary LFG and leachate collection facilities. The LFG and leachate treatment facilities would need to be constructed. Some electrical, water, and sewage distributions systems would be installed within the processing area. Groundwater monitoring and extraction wells would be installed. The construction of permanent drainage works and temporary diversion works around the landfill operating area are needed. The existing offices, maintenance shops, laboratory, and warehouse need to be refurbished and the erection of security lighting and fencing is needed throughout the site.

Prior to the Phase II operations of the landfill (12 to 20 years after start up), additional work would be required primarily at the east end of the project area. Additional rail spurs and container handling areas would be developed to process the additional waste tonnage per day. Up to 12,000 feet of rail spur would be required. The container handling areas would be paved to permit easy unloading of containers by straddle crane. An office complex comprising trailers would be constructed and landscaping installed. A more permanent LFG and leachate treatment facility would be constructed and additional sewage holding tanks would be required. All of these new facilities would be built on previously disturbed portions of the site.

3) Railroad. The existing Eagle Mountain rail line will be used to transport up to one train per day into the site. The existing terminus (modified to add an additional spur) will be used for this train. When a volume of more than one train per day is achieved, the new spur leading to the Phase II container handling yard will be used for train traffic.

Prior to the use of the existing Eagle Mountain rail line, certain repair and maintenance activities must be accomplished. Recent inspections of the line show that it is in relatively good repair, primarily as a result of the excellent construction and maintenance standards that were applied during its operation. Further, the very dry climate in the desert has kept tie rot to a minimum.

The specific activities required are as follows:

- Track straightening and alignment
- Ballast regulation
- Culvert cleanout and repair
- Bridge repair
- Vegetation control
- Oiler maintenance
- Development of endangered species protection measures

As part of the program to ensure minimal impact on endangered species, particularly the desert tortoise, certain activities such as the installation of special culverts for rail under-crossings, tortoise-proof barriers, and other means will be conducted.

c. Landfill Operation. State law and regulations (Subchapter 15 of Title 23, Chapter 3 of the California Code of Regulations [CCR]) regulate the disposal of four types of wastes including hazardous waste, designated wastes, non-hazardous solid waste, and inert wastes. This project will accept only non-hazardous solid waste and inert wastes. As defined in Subchapter 15, non-hazardous solid waste consists of garbage, trash, refuse, paper, rubbish, industrial waste, ashes, appliances, food waste, and other materials provided that such wastes do not contain wastes which must be managed as hazardous waste or wastes with soluble pollutants in concentrations that exceed water quality objectives. In the event that radioactive materials are detected, the County Health Department would be notified immediately. Such materials would be removed in accordance with procedures specified in the project's solid waste facilities permit.

It is proposed that up to a maximum of six trains per day would be delivered to the landfill site. Unit trains would consist of one or more diesel electric locomotives carrying up to 14 railcars. Each train would be less than 4,000 feet long and carry approximately 3,500 tons of refuse.

During maximum operations, an estimated 2,000 tons per day of solid waste would be delivered by truck to the landfill from local areas in Riverside and San Bernardino counties. This would generate approximately 100 daily trips (200 one-way trips). The solid waste load on each truck would be fully enclosed within a solid container. Typical payload weights would be 20,000 to 25,000 pounds and total loaded weight would be approximately 80,000 pounds.

Truck traffic to the Phase I container handling yard would use I-10 and the existing Eagle Mountain Road, a county-maintained road approximately two miles west of Desert Center. From Eagle Mountain Road, approximately six miles north of I-10, the new Eagle Mountain Road extension (old Kaiser Truck Road) would provide access directly to the Phase II container handling yard. The last two miles of this private road would be realigned adjacent to the new rail spur to enter the Phase II container handling yard upon the new right-of-way being requested from the BLM. The trucks would arrive during daylight hours only (12 to 13 hours daily). This is an average of 16 shipments arriving each hour.

Landfill operations would start in the southwest portion of Planning Area 1 to an elevation of 1,950 feet MSL. After a series of drainage improvements have been made, landfill activities will be initiated in the westernmost portion of the East Pit. The first phase of the project sequencing would last from 0 to 10 years. The second phase of the project sequencing (approximately 11 to 75 years) would continue from the west end of the East Pit to the west end of the landfill to final elevations. The third phase of the project sequencing (approximately 76 to 85 years) would fill the northeasterly portion of the landfill area to its final elevation. The final phase of the project sequencing (approximately 86 to 115 years) would fill the East Pit to its final elevation. This sequence of landfill operations is not to be confused with the Phase I and II operations which reference a level of tonnage of waste haulage per day which triggers the construction and use of the Phase II container yard. The final extent of the landfill would remove a total of 994 acres of Sonoran creosote bush scrub vegetation, but leave 644 acres of native habitat on the site undisturbed.

The surface of the landfill would be built up in cells or lifts, as refuse is deposited and then covered each day. When the final grade of the landfill is reached, it would be buried with a final cover. These activities are described below. Landfill operations would be conducted during daylight hours only (approximately 10 to 14 hours per operating day).

At the end of each day's operation, a minimum thickness of six inches of daily cover material would be placed over the refuse, using either crawler tractors or self-propelled scrapers passing directly over the refuse. Three additional crawler tractors would be required and may also be used to doze cover material from stockpiles located near the uncovered refuse. Previous mining activities generated large quantities of waste material (coarse mine tailing or crushed rock and overburden) on the site which would be used for daily and intermediate cover.

Temporary and permanent drainage facilities would be constructed to divert storm water flows around and away from the refuse fill, to collect and remove any storm water that falls on the refuse fill, to control off-site flow of waterborne debris, and to minimize erosion. Temporary drainage flows will also be diverted so as not to impact the Colorado River Aqueduct. Upstream drainage would be conveyed past the landfill and town areas where it can be safely discharged into the natural flow paths downstream.

As final grades are reached in the landfill areas, a final cover with a minimum thickness of four feet would be emplaced. As specified in Title 23 of the CCR, Chapter 3, Subchapter 15, the cover would consist of:

a) A two-foot foundation layer applied over the last cells of refuse disposed in the landfill,

b) A minimum one-foot-thick barrier layer with an effective permeability of at least 1 x 10^{-6} centimeters per second, compacted to 90 percent relative density, and

c) A vegetative layer of one foot minimum thickness as specified by Title 23, CCR, Subchapter 15. A "vegetative" layer is a layer of earth amended with compost or humus and fertilizers such that it will support vegetative growth. The purpose of this is to allow natural vegetation to take hold on the landfill cover to provide erosion control.

The upper surface of the landfill would have a minimum three percent gradient to provide adequate drainage and limit the potential for ponding on its surface.

With a potential 115-year site life, the post-closure use of the site has not been planned at the current time. Settlement and the presence of gas collection facilities serve to limit the types of uses that can be developed after closure. Using the most current research for restoration, a vegetation restoration plan will be prepared. Post-closure uses of the landfill will be compatible with adjoining uses (e.g., Joshua Tree National Monument).

D. ALTERNATIVES TO THE PROPOSED ACTION

1. Reduced Landfill Operations Alternative

Within the general scope of the proposed project, a variety of different configurations for the landfill are possible. Besides the particular phasing and ultimate configuration that is proposed, a project scope which provides for a reduced level of operations and configuration of landfill contours is possible.

The reduced operations alternative would allow for the disposal of up to 16,000 tpd, including up to 14,000 tpd by rail, and up to 2,000 tpd by truck. Truck traffic is included in this alternative to enable the project to serve potential future demand in Riverside County which cannot be economically served by rail transportation. This alternative would have the effect of reducing the capacity of the landfill by approximately 20 percent compared with the proposed action. However, at an inflow of 16,000 tpd, the potential 100-year site life of the project would not be reduced under this alternative.

In reducing the area of the landfill footprint, development would not occur in portions of the East Pit which contain mineral resources or water. The final elevations of this alternative would be slightly less than with the proposed action. The maximum elevation of this alternative is 2,200 feet MSL.

This alternative is consistent with the proposed action's phasing plan, as related to the construction of drainage, leachate, landfill gas, liner, haul roads, and other aspects of the proposed landfill design.

The landfill operations would be similar to those described in the proposed action. The waste would be initially received at transfer stations in the counties of Los Angeles, San Bernardino, Orange, and Riverside. After sorting and compaction, it would be shipped via rail to the landfill site where it would be deposited. Potential leachate production would be controlled, monitored, and treated. Groundwater would be monitored. Drainage around the landfill would be provided. Landfill gas would be collected and controlled. This proposed alternative would observe all of the appropriate requirements of a Class III landfill, including closure and post-closure. Mining exploration, mining, and related ore processing would be much less affected with this alternative. Impacts to biological resources would not differ significantly from those discussed under the proposed action.

2. Proposed Action With Rail Access Only Alternative

This alternative would reduce the daily capacity of the project to 16,000 tons, all of which would be delivered by rail. This alternative would eliminate the use of refuse disposal trucks to the proposed site; however, all other landfill activities described in the proposed action would remain the same. While this alternative may be feasible, it precludes transporting waste from nearby sources in Riverside County. Serving Riverside County is an important condition of locating the project in Riverside County. This alternative would reduce potential impacts to biological resources (e.g., desert tortoise) that would be affected by the widening of Eagle Mountain Road and the associated increase in truck traffic outlined in the proposed action.

3. No Action Alternative

This alternative would leave the Eagle Mountain site in its present condition and no landfill would occur. The caretaker status of the former mining operations would be maintained, at least temporarily. The existing mining reclamation plan developed by Kaiser Steel Corporation in 1978 may be implemented. The East Pit and surrounding piles of overburden rock and mine tailing would remain, with minor drainage and other improvements to stabilize their surfaces and allow natural revegetation to occur. The land surrounding the former mining operations would continue to be highly disturbed. The economic benefits to the County and the Desert Center economy resulting from the landfill operations would not occur. No significant impacts to biological resources are expected from this alternative.

Under the No Action alternative, the BLM/Kaiser land exchange could still occur in the future, although that is highly unlikely without the proposed landfill operations. The railroad right-of-way grant would not be necessary under this alternative.

Metropolitan southern California communities would continue to rely on existing or expanded landfills under the No Action alternative. Even with state-mandated solid waste reduction goals, the existing capacity in most landfills is limited to a decade or less (SCS Engineers 1989).

III. SPECIES ACCOUNTS

The species discussed in this section are listed by the USFWS and the CDFG as threatened or endangered species. Because of the 115-year life of the Eagle Mountain landfill project, other species with the potential to be listed during the project's lifetime (i.e., candidate species and California fully protected species) are also discussed. Listed and candidate species in the project area are given in Table 1.

A. FEDERALLY LISTED SPECIES

1. Bald Eagle and "No Effect" Determination

The bald eagle (*Haliaeetus leucocephalus*) is probably one of the most recognizable birds in the United States. The adult's large size (wing span seven to eight feet), white head and tail, and yellow bill make this raptor stand out wherever it resides. Immature eagles lack the white head and tail, and tend to be mostly brown in color, with a dark bill and some whitish coloration in the wing linings and breast. Bald eagles reach maturity in four to six years.

Bald eagles are primarily fishing eagles, although they will take other prey and carrion. Because of their prey preference (i.e., fish), these eagles tend to be found during both the breeding and nonbreeding seasons concentrated near lakes, rivers and coastlines. They will often concentrate in large numbers in areas where there is a concentrated food source (Newton 1979).

These eagles are migratory in behavior. In western North America, breeding takes place primarily in the northwestern U.S. and Canada, and Alaska. Wintering sites are found along the entire west coast of North America, as well as numerous scattered sites throughout the western U.S. and Mexico. In California, bald eagle breeding is currently found only in the northern portion of the state, in Butte, Lake, Lassen, Modoc, Plumas, Shasta, Siskiyou, and Trinity counties. Historically, bald eagles were known to breed in southern California, primarily along the coast and on the Channel Islands (CDFG 1980). In 1980, the CDFG began initial efforts to restore the eagle breeding population on the Channel Islands. Six wild nestlings from the state of Washington were fledged from artificial platform nests on Catalina Island (CDFG 1980). Between 1980 and 1988, 33 birds had been reintroduced on the Channel Islands, but no eggs had successfully hatched (CDFG 1989), perhaps due to DDE contamination. With the exception of these reintroduced birds, the only bald eagles now seen in southern California are observed during winter, either at winter roost sites or during migration.

The decline in bald eagle populations that led to the species being listed by both the U.S. and the State of California as endangered can be traced to two main man-caused impacts, direct persecution and pesticide poisoning. Newton (1979) compiled data collected between 1966 and 1974 by a number of researchers studying bald eagle mortality. He concluded that 43 percent of all bald eagle deaths were the result of direct human persecution (i.e., shooting, trapping, and poisoning), and that 10 percent were caused by pesticide poisoning (Dieldrin, or DDE/DDT). Remaining mortality was the result of natural causes or accidents (e.g., collisions, electrocution, etc.). Even some of the accidental deaths are human-related (e.g., some collisions and electrocution). All of these factors resulted in a significant decline in bald eagle populations between the 1950's and 1970's. In southern California especially, another impact to bald eagles has been loss of suitable habitat due to urbanization. Bald eagles are very sensitive to disturbance caused by human activity. Even habitat that appears suitable may be abandoned if human activity becomes too

TABLE 1
FEDERAL AND STATE LISTED AND CANDIDATE SPECIES OCCURRING WITHIN THE VICINITY OF THE EAGLE MOUNTAIN LANDFILL PROJECT

Common Name	Scientific Name	Habitat	Status
Fish			
Desert pupfish+	*Cyprinodon macularius*	Ponds	FE,CE
Reptiles and Amphibians			
Flat-tailed horned lizard	*Phrynosoma mcallii*	CDS,sandy soils	C1,CE
Colorado Desert fringe-toed lizard	*Uma notata notata*	Sand Dunes	C2
Desert tortoise+	*Gopherus agassizi*	CDS,MDS	FT,CT
Mammals			
California leaf-nosed bat+	*Macrotus californicus*	Caves, mines	C2
Townsend's western big-eared bat	*Plecotus townsendii townsendii*	Caves, mines	C2
Spotted bat	*Eudermas maculatum*	CDS, mines	C2
California mastiff bat	*Eumops perotis californicus*	CDS,C,mines	C2
Arizona Myotis	*Myotis lucifugus occultus*	CDS,CR	C2
Arizona cave Myotis	*Myotis velifer velifer*	CDS, CR, caves	C2
Yuma mountain lion	*Felis concolor*	CDS,mountain ranges	C2
Nelson's bighorn sheep+	*Ovis canadensis nelsoni*	CDS,mountain ranges	CFP
Birds			
Bald Eagle	*Haliaeetus leucocephalus*	Rivers, lakes	FE,CE,BEPA
Black-shouldered kite	*Elanus caeruleus*	CDS,washes	CFP
Golden eagle	*Aquila chrysaetos canadensis*	CDS	BEPA
American peregrine falcon	*Falco peregrinus anatum*	Mountain ranges,rivers,lakes	FE,CE
Swainson's hawk	*Buteo swainsoni*	M	C2,CT

TABLE 1
FEDERAL AND STATE LISTED AND CANDIDATE SPECIES OCCURRING WITHIN THE VICINITY OF THE EAGLE MOUNTAIN LANDFILL PROJECT
(continued)

Common Name	Scientific Name	Habitat	Status
Birds (cont.)			
Yuma clapper rail	*Rallus longirostris yumanensis*	FM	FE,CT
California black rail	*Laterallus jamaicensis coturniculus*	FM	CT,C1
Least Bell's vireo	*Vireo bellii pusillus*	WRW	FE,CE
Arizona Bell's vireo	*Vireo bellii arizonae*	WRW,CR	CE
Gila woodpecker	*Melanerpes uropygialis*	M,WRW,CR	CE
Elf Owl	*Micrathene whitneyi*	WRW,CR	CE
Willow Flycatcher	*Empidonax traillii*	M,WRW	CE
Western snowy plover	*Charadrius alexandrinus*	LS,AF	C2
Mountain plover	*Charadrius montanus*	G	C2
Tricolored blackbird	*Agelaius tricolor*	FM,G	C2
Eagle Mountain scrub jay	*Aphelocoma coerulescens cana*	PJ	PC2
Plants			
Slender-horned spineflower	*Centrostegia leptocera*	CSS,Washes	FE,CE
Alverson's foxtail cactus	*Coryphantha vivipara* var. *alversonii*	CDS,Stony slopes	C2
California ditaxis	*Ditaxis californica*	CDS,Washes, rock benches	C2
Santa Ana River wooly-star	*Eriastrum densifolium* ssp. *sanctorum*	CSS	FE,CE
Munz cholla	*Opuntia munzii*	CDS,Dry gravelly areas	C2
Orocopia sage	*Salvia greatai*	CDS,Dry washes and fans	C2
Orcutt aster	*Xylorhiza orcuttii*	CDS,Gypsum soils	C2

+Species observed on the project site during field surveys.

TABLE 1
FEDERAL AND STATE LISTED AND CANDIDATE SPECIES OCCURRING WITHIN THE VICINITY OF THE EAGLE MOUNTAIN LANDFILL PROJECT
(continued)

Habitats

CDS = Colorado desert scrub
FM = Freshwater marsh
G = Grassland, pasturelands, etc.
M = Migrant only
MDS = Mojave desert scrub
PJ = Pinyon/juniper woodland
C = Caves, mine tunnel
WRW = Willow riparian woodland
CSS = Coastal sage scrub
PO = Palm oases
CR = Colorado River
LS = Lake shores
AF = Alkali flats

Status

FE = Federal endangered
CFP = California fully protected
CT = California threatened
CE = California endangered
BEPA = Federal Bald Eagle Protection Act
C1 = Federal Category 1 Candidate species
C2 = Federal Category 2 Candidate species
PC2 = Proposed Federal Category 2 Candidate species
FT = Federal threatened

intense. Many coastal wetland areas have been significantly impacted by development and have likely been excluded as bald eagle habitat.

The State of California established the California Bald Eagle Working Team in 1974, and joined the Pacific Bald Eagle Recovery Team in 1979, in an attempt to monitor the status and promote the recovery of bald eagle populations in California (CDFG 1980). With state and federal protection, and the banning of DDT, the bald eagle populations in the western U.S. are beginning to recover. However, it appears that most wintering populations in southern California will continue to be confined to inland lakes, since urbanization precludes reestablishing bald eagle habitat in coastal areas.

No large bodies of water exist in the immediate vicinity of the Eagle Mountain landfill project that might support a wintering bald eagle population. Small numbers of birds have been observed wintering along the Colorado River in the Needles/Topock area and at the Salton Sea (Garrett and Dunn 1981). However, these eagles are sufficiently removed from the project site that they are not expected to be directly or indirectly impacted.

2. American Peregrine Falcon and "No Effect" Determination

The American peregrine falcon (*Falco peregrinus anatum*) is a crow-sized raptor with a wing-span of 35 to 40 inches. It has the characteristic falcon shape, with long tapered wings and narrow tail. These birds are slate-gray on their back with light-colored breast feathers exhibiting bars or spots. Probably the most striking coloration pattern of this species is the distinct dark facial mask and cheek patch. Males of this species are usually distinctly smaller than females. Immature falcons are brown in color with heavy underbelly streaking.

Peregrine falcons occur nearly worldwide, but populations in many areas have been greatly reduced due to DDT contamination, shooting, habitat loss, and bird collection for falconry. These falcons occur in a number of habitat types, but prefer open country near cliffs, either along coastlines or inland. Their hunting style of taking birds on the wing requires relatively open terrain. Coastal lagoons, lakes, and riversides provide ideal hunting habitat for this species.

This falcon nests on tall cliffs and occasionally on tall man-made structures such as skyscrapers. Peregrine falcons are often paired before they arrive at the breeding site. In fact, there is some evidence that these birds may remain paired, at least in some locations, throughout the year. The female lays a clutch of three to four eggs. Incubation takes from 32 to 34 days, with both the male and female sharing in incubation duties. The time from hatching to fledging of the young takes from 35 to 40 days, and the young remain with the parents from five to six weeks after fledging (Newton 1979).

In California, at least 100 active peregrine falcon nests were known to exist during the mid-1940's. A significant decline in active nests began about 1950, just after the widespread introduction of the pesticide DDT. By 1969, fewer than 10 active nests remained in the state. The food supply of peregrines (e.g., waterfowl and shorebirds) became contaminated by DDT residues. Because these prey species were concentrating DDT in their bodies, by consuming contaminated food themselves, the falcons were receiving an even higher dose of poison by being on top of the food chain. The DDT caused significant eggshell thinning, which resulted in a significant increase in nesting failures. The ultimate result, when combined with illegal shooting, falconry, and habitat loss, was a drastic decline in the California peregrine population (CDFG 1980).

DDT use was banned in California in 1971, and protection efforts for the peregrine falcon were increased during the 1970's. By 1980, 42 breeding pairs were observed in California, primarily in the central and north coast ranges and Cascade Range (CDFG 1980). In 1988, 83 breeding pairs were recorded statewide (Jurek 1989). Even though DDT use has been banned, its persistence in the environment (especially along the central coast of California) still plagues the peregrine (Jurek, pers. comm. 1990).

The peregrine falcon is a rare fall and winter transient in the desert areas of southern California. Occasionally, falcons may be seen during summer months near the Salton Sea, but it is possible that these individuals originate from Baja California, Mexico, where they still nest in fair numbers (Garrett and Dunn 1981). The peregrine was considered a regular winter visitor to the Colorado River, but the number of birds has greatly decreased there, with recent records coming primarily in fall (Garrett and Dunn 1981).

Like the bald eagle, the peregrine falcon prefers high cliffs for roosting in proximity to large bodies of water (e.g., lakes, rivers, estuaries, etc.), where foraging is concentrated. This habitat combination is not found on or in the vicinity of the Eagle Mountain landfill project. An occasional peregrine may migrate over the project site.

3. Least Bell's Vireo and "No Effect" Determination

The least Bell's vireo (*Vireo bellii pusillus*), a federal- and state-listed endangered species, is a small (four to five inches long), olive-gray bird with light underparts, pale buffy yellow sides, indistinct white eye-ring, and narrow wing bars (RECON 1986). Four subspecies of Bell's vireo exist in North America, but the least Bell's vireo is the predominant subspecies occurring in southern California. This subspecies breeds in California and northwestern Baja California and winters in southern Baja California (RECON 1989). The Arizona Bell's vireo (*Vireo bellii arizonae*) is also found in California, but only along the Colorado River. This Arizona subspecies is also classified by the State of California as endangered.

The least Bell's vireo arrives in southern California in late March to early April to begin breeding activities. Nesting territories, averaging 0.76 ± 0.30 hectares (range of 0.20 to 1.66 hect.), are established in riparian habitat, usually in dense willow-dominated thickets along the coastal slopes. Detailed habitat analyses of nesting habitat indicate that these vireos are found most frequently in riparian vegetation with significant tree cover in conjunction with a well developed shrub understory. Common understory plant species include sandbar willow (*Salix hindsiana*), mule fat (*Baccharis glutinosa*), young arroyo willow (*Salix lasiolepis*), young black willow (*Salix gooddingii*), and a number of herbaceous species (U.S. Army Corps of Engineers 1990). Vireos are also found much more frequently in wider versus narrow segments of riparian habitat (e.g., 51-250+ foot wide riparian zones) (RECON 1986).

Studies of this vireo in San Diego County have shown that nest site selection is fairly consistent, and this is likely the case in other areas of southern California as well. It was found that the majority of vireo nests were placed in either black willow, arroyo willow, or mule fat. Which of these plant species is utilized appears to depend upon which one is most abundant. The height of the nest above ground averages approximately one meter (0.93 to 1.31) (RECON 1989). The average clutch size is four eggs. Both male and female vireos incubate and care for the young. Fledging occurs 10 to 12 days after hatching (U.S. Army Corps of Engineers 1990).

The least Bell's vireo has declined in numbers to the point where it required listing as an endangered species for two principal reasons, loss of riparian habitat and cowbird parasitism. Riparian habitat has decreased in abundance dramatically in California over the past 150 years. It has been estimated that in the Central Valley more than 90 percent of the riparian woodland habitat that existed in the period before settlement has been developed or degraded (Katibah 1984). A similar story could be told about riparian woodlands in other parts of the least Bell's vireo's historic range.

Nest parasitism by the brown-headed cowbird (*Molothrus ater*) has also had a strong negative impact upon vireo populations. Cowbird populations in southern California have increased dramatically in close correspondence to increases in agriculture and livestock activities. Because intense parasitism from these birds is a relatively new phenomenon, beginning in the early twentieth century (RECON 1989), vireos have not yet adapted physical or behavioral defenses to it.

Range-wide surveys of least Bell's vireo populations were conducted in 1986 and 1987. In 1986, a total of 397 singing males, of which approximately 275 were known to be paired, were observed on 32 drainages. In 1987, 437 males, of which 284 were known to be paired, were observed in 23 drainages. Seventy-two percent of all male vireos observed in 1986 occurred within San Diego County (85 percent in 1987), with the remaining vireos scattered throughout Santa Barbara, Los Angeles, Orange, Riverside, Inyo, Monterey, and Benito counties.

Least Bell's vireo has been recorded to occur in small numbers in the vicinity of Palm Springs (Figure 9). Surveys in 1986 indicated several birds present in Palm Canyon (RECON 1986). This is over 60 miles from the proposed landfill site. No least Bell's vireo habitat exists on the Eagle Mountain landfill site, and no impacts are expected to occur to this species from project implementation.

4. Yuma Clapper Rail and "No Effect" Determination

The Yuma clapper rail (*Rallus longirostris yumanensis*) is the most slender and pale of the three clapper rail subspecies in California. The clapper rails generally are gray-brown above and buffy-cinnamon below. The cheeks are brownish-gray, and the flanks are barred with black and white. The bill is long and slightly "downcurved" (CDFG 1989). This subspecies is listed by the USFWS as endangered and the CDFG as threatened.

This rail inhabits freshwater marshes along the lower Colorado River, from the Nevada-California border to upper Baja California, Mexico. The subspecies also occurs in areas of marshland along the lower Gila River, in

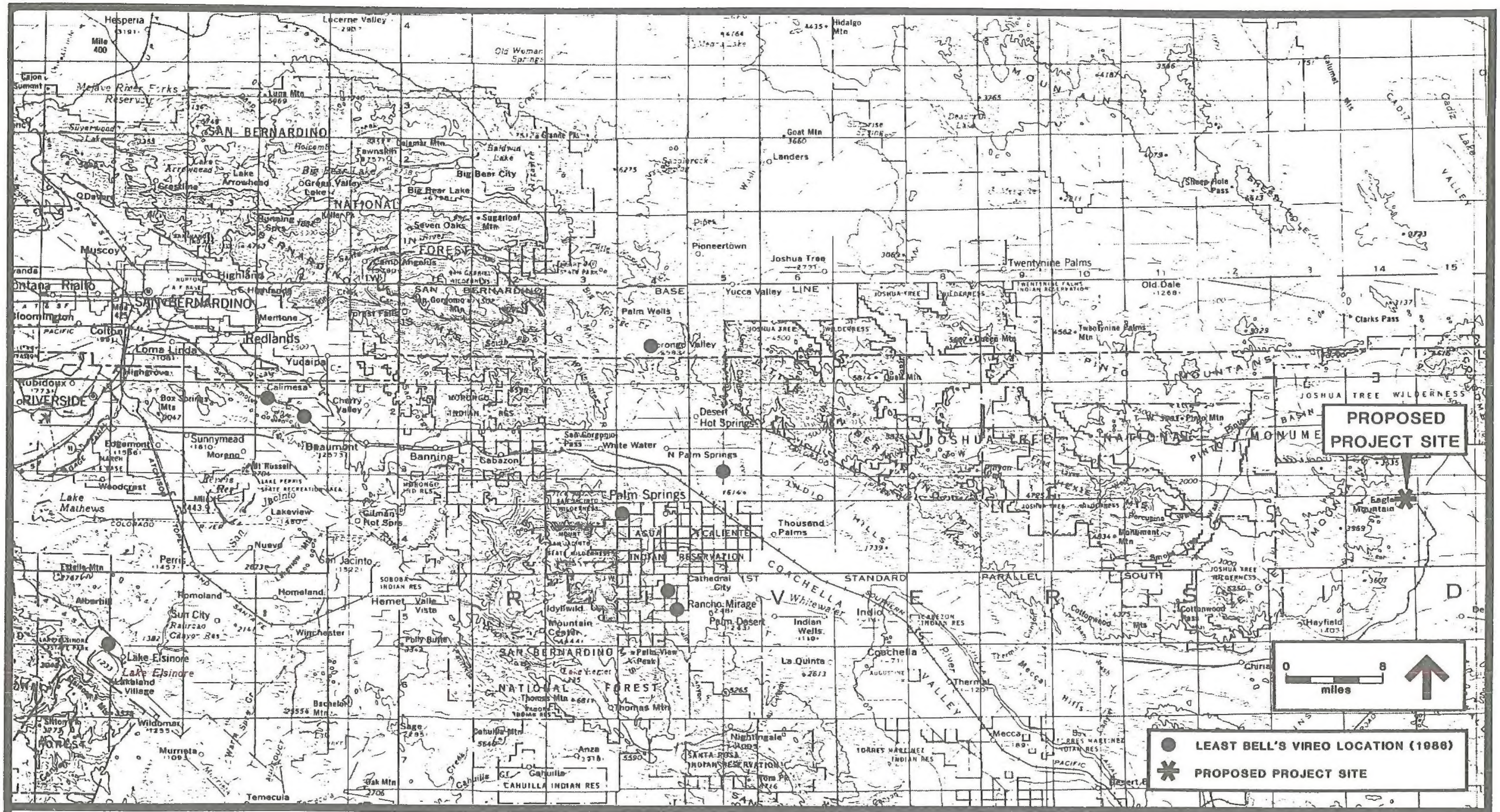


FIGURE 9. LEAST BELL'S VIREO LOCATIONS IN ORANGE, RIVERSIDE AND SAN BERNARDINO COUNTIES

Arizona, at the Salton Sea, and at isolated locations in Imperial and Riverside (Salt Creek) counties (Anderson 1983). Rail occurrence along the Colorado River is relatively recent (1940). Appropriate habitat was much less abundant before Bureau of Reclamation dams were built and caused upstream silt deposition. This silt deposition created the conditions necessary for the establishment of shallow freshwater marsh habitat (Eddleman 1989).

Preferred clapper rail habitat consists of freshwater marsh with stands of mature emergent vegetation, such as cattails (*Typha latifolia*) and bulrushes (*Scirpus acutus*), shallow water, and nearby upland areas for resting (Smith 1974; Anderson 1983; BOR 1989). Rail activity seems to be greatest in stands of cattails dissected by narrow channels of flowing water (Anderson 1983).

Yuma clapper rail breeding home ranges average greater than seven hectares and tend to increase after the breeding season and during the winter (Eddleman 1989). Predation, principally by coyotes (*Canis latrans*), raccoons (*Procyon lotor*), and various raptor species, is the main cause of mortality. Annual survival of adult rails ranges between 25 and 67 percent (Eddleman 1989).

The breeding season of this bird occurs between March and July. Nests are built in emergent vegetation over shallow water or in dense dead vegetation. Clutch size averages six to seven eggs and incubation lasts 23 to 28 days (Eddleman 1989).

The rail diet consists principally of crayfish (*Procambarus* sp. and *Orcopectes* sp.), although other food items include insects, clams, small fish, and vegetation (BOR 1989; Eddleman 1989; Ohmart and Tomlinson 1977). It was originally believed that the California population of Yuma clapper rails migrated into Mexico during the winter, primarily as a result of their crayfish food source becoming dormant (Anderson and Ohmart 1985). However, recent data indicates that a significant percentage (up to 70 percent) of rails are year-round residents, especially along the Colorado River (Eddleman 1989).

During March and April, 1988, surveys for Yuma clapper rail were conducted along Salt Creek and in the vicinity of Dos Palmas Ranch (BOR 1989). A minimum of six to eight rails were detected by call during these surveys. This represents a minimum population estimate. In 1977, Bennett and Ohmart (1978) recorded at least 14 rails, 12 of which were paired. The area where rails have been found to occur in Salt Creek are less than one mile from the Eagle Mountain railroad right-of-way that crosses the creek (BOR 1989).

No Yuma clapper rails were detected within the 200-foot-wide railroad right-of-way during the 1989 project field survey. Clapper rails need over seven hectares of habitat to breed and forage (Eddleman 1989). They spend very little time outside of the nesting area. Because the amount of potential habitat along the railroad is much smaller than documented clapper rail habitat requirements, no clapper rails are expected to occur along the railroad corridor. No impacts to this species are anticipated from project implementation.

5. Federal-Listed Plants Species and "No Effect" Determination

Two federal-listed plants species were initially considered to have the potential for occurrence in the vicinity of the proposed action. These species are 1) slender-horned spineflower (*Centrostegia leptoceras*) and 2) Santa Ana River wooly-star (*Eriastrum densifolium* ssp. *sanctorum*). Slender-horned spineflower is currently known from only five localities, totaling fewer than 10 acres in extent in San Bernardino and Riverside counties (Federal Register 1987). These locations are adjacent to Lytle Creek and the Santa Ana River in San Bernardino County, and Temescal Creek, the San Jacinto River, and Bautista Creek in eastern Riverside County.

The Santa Ana River wooly-star is endemic to the Santa Ana River drainage of southern California, and it presently occurs from Redlands east to the mouth of the Santa Ana Canyon in San Bernardino County (Federal Register 1987; Zembal and Kramer 1984). Based on their present known distribution and habitat requirements, neither of these two species are likely to occur at or near the site of the proposed action, nor would they be adversely affected by the proposed action.

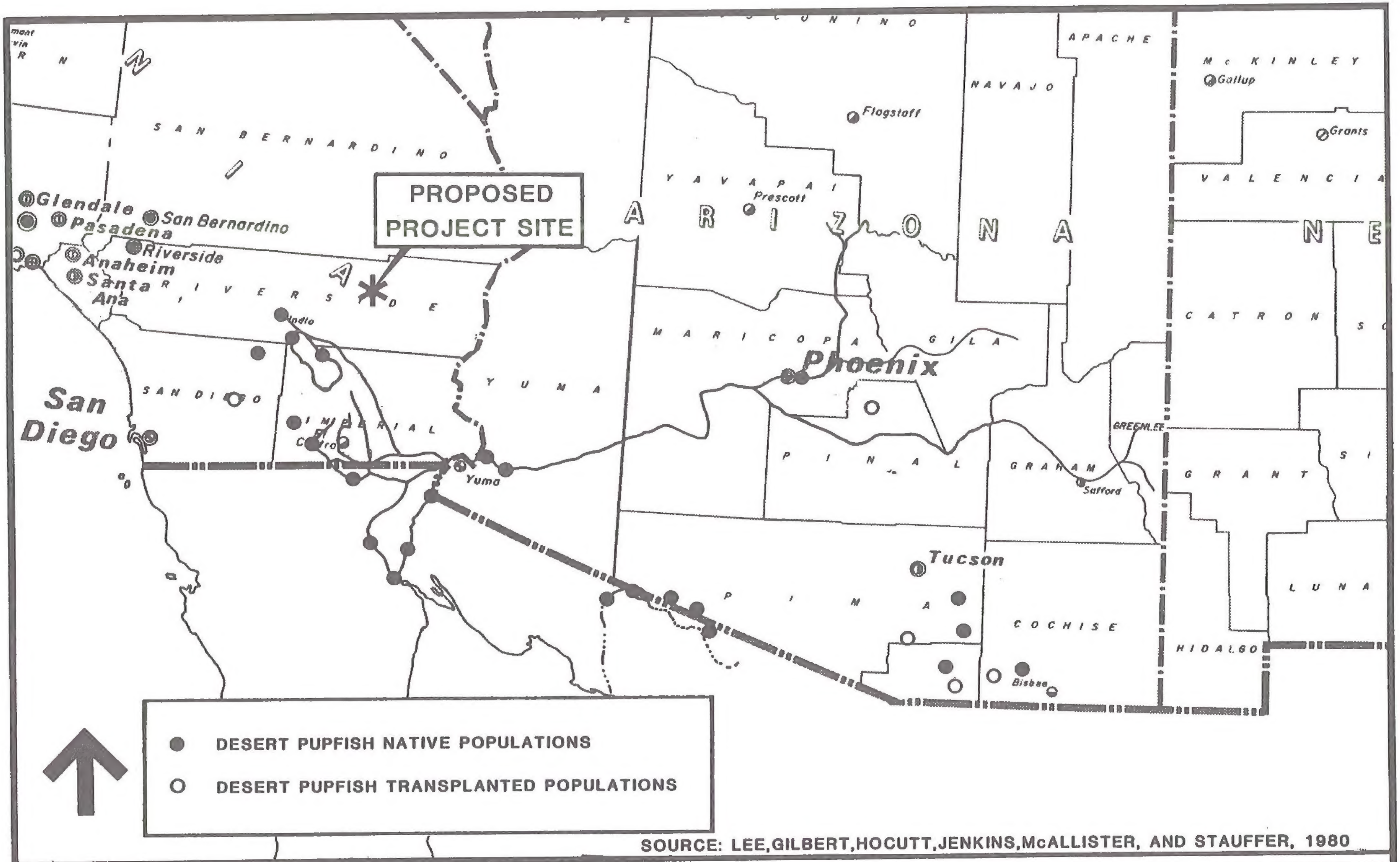
6. Desert Pupfish and "May Effect" Determination

a. Distribution and Life History. The desert pupfish *(Cyprinodon macularius*) is a federal- and state-endangered species. It is a minnow-sized (60-75 mm) member of the killifish family and is found in the lower Colorado and Gila Rivers from southern Arizona to eastern California and northern Sonora, Mexico (Lee et al. 1980) (Figure 10a). This species is threatened with extinction, due to loss of habitat as a result of dams, channelization, and water diversions. The introduction of exotic fish species, especially *Tilapia* spp., into local waterways has also impacted pupfish populations (CDFG 1989).

Desert pupfish populations are established in the area of the Salton Sea, primarily in San Felipe and Salt Creeks (Figure 10b). Pupfish occur in a wide variety of habitats with harsh environmental fluctuations in oxygen, temperature, and salinities (Lee et. al. 1980). Desert pupfish populations fluctuate widely between years and seasons and are particularly regulated by the amount of rainfall occurring during the winter season. As smaller pools begin to dry during the summer, the fish move to other pools which maintain water throughout the dry season (BOR 1989).

Desert pupfish habitat requirements include water depths of not more than 12 inches, surface flows of not more than 1 cfs, water temperature above freezing all year round, a sand-silt streambottom, and an abundance of rooted aquatic plants and filamentous algae (BOR 1989; Black 1980). This species tends to aggregate in loose schools of similar size and age. From these schools small groups leave to forage. This species feeds on small invertebrates and algae foraged from stream substrate. During extreme temperature conditions, some pupfish populations burrow in loose debris and become dormant. Spawning occurs from April through October (Lee et. al. 1980).

In a survey conducted by CDFG in 1986 (see Attachment 2), a population of 70 pupfish was found approximately one-quarter mile south of the Eagle Mountain railroad trestle crossing the tributary of Salt Creek (see Figure



SOURCE: LEE,GILBERT,HOCUTT,JENKINS,McALLISTER, AND STAUFFER, 1980

FIGURE 10a. DISTRIBUTION OF THE DESERT PUPFISH

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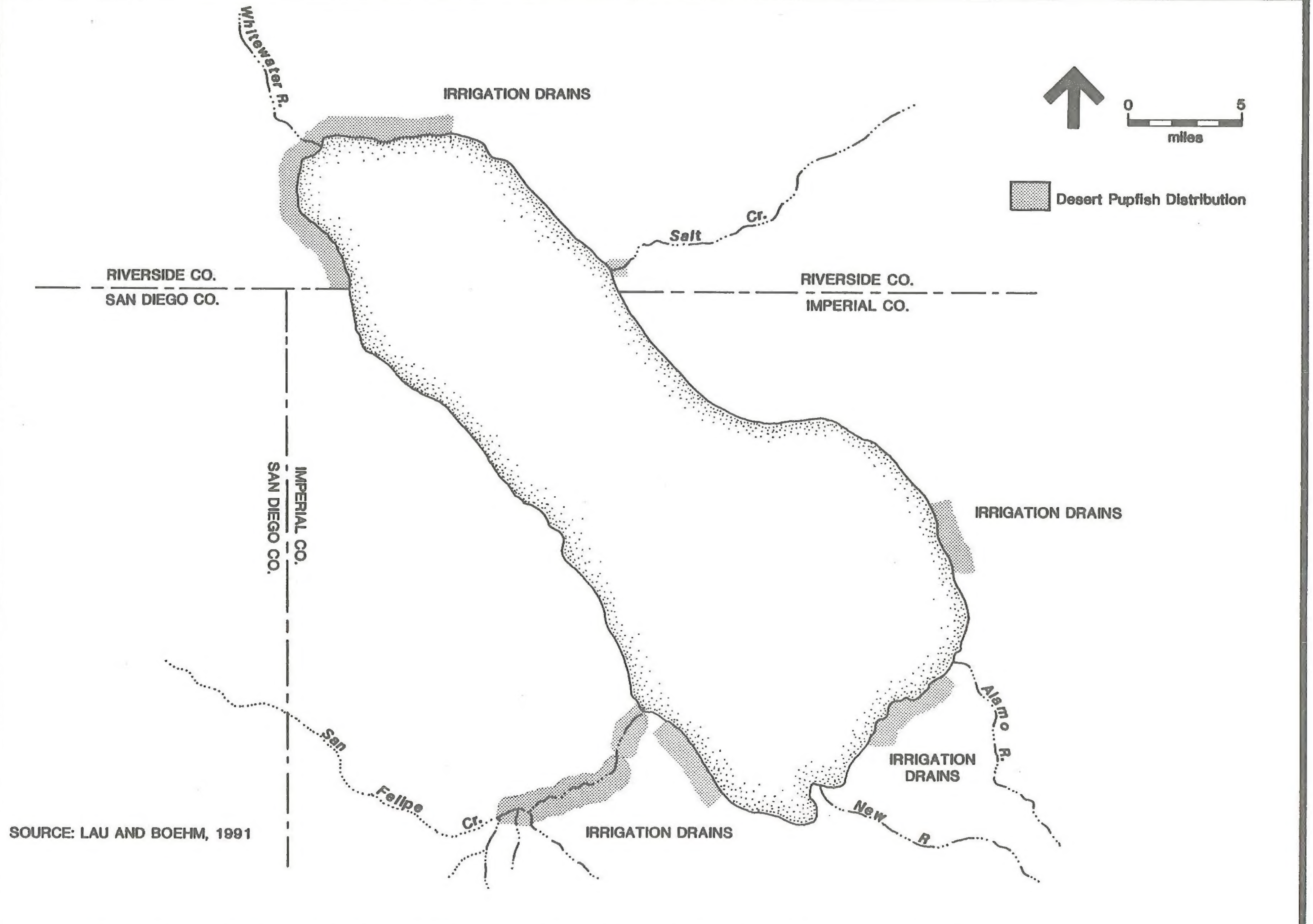

SOURCE: LAU AND BOEHM, 1991

FIGURE 10b. DISTRIBUTION OF DESERT PUPFISH IN THE VICINITY OF THE SALTON SEA

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14a) (Nicol, pers. comm. 1986). This location is approximately two and one-half miles upstream from the Salton Sea (NW/4 Section 23 T8S R11E). Surveys conducted in early June, 1990 found 125 pupfish in the same area of the tributary to Salt Creek; however, a flash flood in June reduced the pupfish population to two fish by June 16. Additional surveys in 1991 showed that this pupfish population had returned to pre-flood levels by March. Populations have been observed on the BLM property at Rancho Dos Palmas, which is located upstream approximately two miles north of the Eagle Mountain rail line trestle.

The area directly under the railroad trestle in the tributary noted above is potentially appropriate desert pupfish habitat and may be used by this species. The tributary provides a potential corridor underneath the railroad for movements of pupfish up and downstream of the railroad crossing.

Surveys conducted by CDFG in May and June, 1990, found no pupfish in an alkali pond within the railroad right-of-way (on the northwest side of the railroad), east of the Salt Creek tributary. Pupfish could enter this pond in years of high rainfall and during flooding of Salt Creek (Nicol, pers. comm. 1990). The results of the pupfish survey indicate that no pupfish or any other fish species occur in the pond, nor were any invertebrates or algae observed.

b. Project Impacts. Pupfish were observed in Salt Creek tributary in 1982 (Nicol, pers. comm. 1989), a time near the end of several decades of Eagle Mountain train operations. Although earlier surveys were not intended to specifically assess the effect of the rail operations on the pupfish habitat, it is apparent that the pupfish population continued within the streambed immediately under the railroad trestle for some time. The frequency and length of trains anticipated with the proposed landfill are approximately the same as in the former mining operation. Therefore, few changes are anticipated in the overall quality of the habitat.

Reactivation of the rail line will require track repair and maintenance activities. Debris could be deposited in Salt Creek which could impact the pupfish population. Rail line maintenance also requires weed abatement along the rail right-of-way. However, no herbicides or other chemicals will be utilized to control plants. All weed/plant removal will be done by hand. No significant impacts to pupfish are anticipated from these procedures.

Because trash will be fully contained in closed containers and specially designed railcars, no trash will escape during train travel and no impacts are expected to occur to pupfish or their habitat from solid waste discharges during regular use of the railroad. However, direct and uncontrollable impacts could occur to pupfish if there is an accident along the trestle during rail operations. Furthermore, it should be expected that sometime during the 115-year life of the project maintenance or reconstruction of the trestle will become necessary. Major construction activities in the immediate area of pupfish habitat could have a significant impact. Direct kills of fish could occur if they are using habitat under the trestle at that time and if the water and substrate quality were adversely affected by construction. During the fall when water levels are lowest in the Salt Creek system, pupfish populations drop to about 100 individuals. Pupfish losses during this period could be even more critical than at other times of the year. Because of the limited distribution and abundance of this species, any negative impact would be considered a significant cumulative impact.

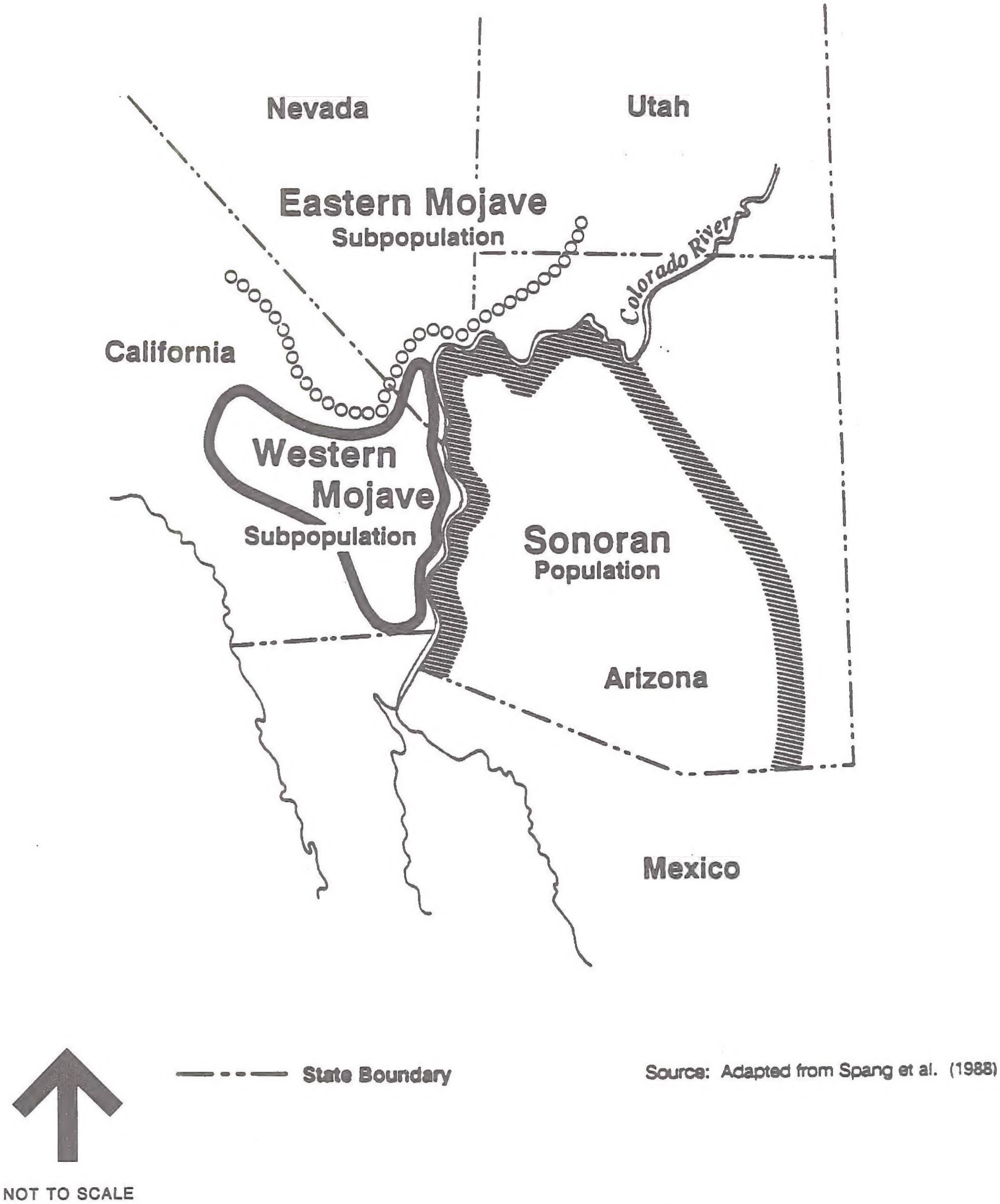
c. Mitigation/Compensation. Mitigation for potential impacts to the desert pupfish will include monitoring during rail line repair/maintenance activities, as well as during any emergency cleanup operations. All monitoring will be conducted by a qualified biologist.

Annual surveys of the pupfish populations and habitat by the CDFG will continue along Salt Creek and its tributary under the train trestle. Although this is not a mitigation for project impacts, this data will be used to assess whether pupfish are being affected by railroad reactivation. If train operations affect the habitat, USFWS, CDFG, and BLM shall be notified and corrective actions will be developed by MRC in consultation with USFWS and CDFG. If maintenance of the trestle or railroad in the Salt Creek tributary must occur, mitigation measures shall be incorporated into the project plans to reduce potential impacts to desert pupfish. Plans for construction or major maintenance will be reviewed by USFWS and CDFG. If construction is required on the trestle or rails crossing the tributary, construction plans shall include designs and specifications that will avoid impacts to desert pupfish, including prohibition of construction during the fall when pupfish populations are most restricted and vulnerable. Storage and staging areas shall be placed in locations which will not affect the habitat, and measures to avoid any discharge of pollutants will be incorporated. A qualified biologist will be on-site whenever any maintenance work is conducted on or near pupfish habitat.

In the event any rail accidents occur in the vicinity of desert pupfish habitat, a qualified biologist will be included as a response and cleanup team member. The USFWS, BLM, and CDFG will be notified immediately of any accidents. The cleanup operations will be monitored by the biologist so that additional adverse impacts are not incurred by the cleanup operation. Measures to restore the pupfish habitat in Salt Creek and its tributary in the event of an accident will be incorporated as part of the response plan. This will include removal of any portion of the streambed that is contaminated, and the placement of a similar-type clean fill material such that the hydrology of the stream is not altered. If an accident causes the loss of the local pupfish population, the habitat will be restocked with pupfish of the same genetic strain from the nearest suitable population.

7. Desert Tortoise and "May Effect" Determination

a. Distribution and Life History. The desert tortoise is a federal- and state-threatened species. It ranges from southern Nevada and extreme southwestern Utah through southeastern California and southwestern Arizona into northern Mexico (CDFG 1989). In California, the tortoise occurs in northeastern Los Angeles, eastern Kern and southeastern Inyo counties, and most of San Bernardino, Riverside, and Imperial counties. Based upon genetic studies, two major genetic populations have been identified (Jennings 1985; Spang et al. 1988; Lamb et al. 1989) (Figure 11). The dividing line between these populations is the Colorado River. The tortoises east of the Colorado River are referred to as the Sonoran population. Those tortoises west of the Colorado River, including those on the project site, are designated as the Mojave population. The Mojave population has been subdivided further into



Source: Adapted from Spang et al. (1988)

FIGURE 11. DESERT TORTOISE POPULATION DISTRIBUTION

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eastern and western subpopulations, with the proposed project located within the region of the western subpopulation.

The desert tortoise is considered to be a "K-selected" species, meaning that it has a low birth rate, low recruitment of juveniles into the breeding population, low mortality in older age categories, and a low population turnover rate (Hohman, Ohmart, and Schwartzmann 1980). As a result, the number of adults may remain constant for relatively long periods, during which the ratio of adults to other age groups may vary widely. Next to the number of breeding adults, the number of juveniles likely to join the ranks of adults is a critical component of a stable population. However, assessing the number of juveniles in a population is very difficult, and an optimum value for the adult/juvenile ratio is not currently known (RECON 1990).

Tortoises are active only during the warmer months of the year, with greatest activity in the spring. Their active season begins in early March and ends in late October or early November. They remain inactive in their burrows during the winter months. Tortoises are also relatively inactive during the peak of summer, when ambient temperatures are highest. There is evidence that the daily activity pattern of this species is dictated by air temperature. Tortoises are active primarily between ambient temperatures of 65 to 105 degrees Fahrenheit (18 to 42 degrees Celsius), often resulting in a bimodal daily activity pattern, early morning and late afternoon. Rainfall also can stimulate tortoise activity, as they will emerge from their burrows to drink rainwater, even if ambient temperatures are not optimal (Nagy and Medica 1986).

The preferred diet of the desert tortoise consists primarily of ephemeral forbs and grasses, and perennial grasses (Burge and Bradley 1976; Hansen et al. 1976; Coombs 1979; Nagy and Medica 1986).

Courtship and mating typically occur in the spring, but not all adult tortoises within a population reproduce during a particular year. Nests are dug by the female tortoise, and anywhere from 2 to 14 eggs deposited (Ernst and Barbour 1972; Turner et al. 1986). Incubation time ranges from 98 to 135 days (Hohman, Ohmart, and Schwartzmann 1980). A breeding female may lay from one to three clutches in a summer (Turner, Medica, and Lyons 1984; Turner et al. 1986).

Based upon data for desert tortoises in California, Arizona, Nevada, and Utah, the average home range of a tortoise is estimated to be between 27 and 131 acres (11 to 53 hectares) (Berry et al. 1986). Females typically have smaller home ranges than males. Long-term movement patterns for individual tortoises and whole populations are not well understood. It is not known how far an individual tortoise travels over the course of its lifetime, and in what patterns. It is also not known which individuals and groups are likely to migrate to other habitat areas, how long such movements take, and what conditions prompt or prohibit such movement (RECON 1990).

Figure 12 shows the desert tortoise distribution in the general vicinity of the project site. Figure 3 indicates BLM-designated tortoise habitat in the region surrounding the Eagle Mountain landfill site. The Chuckwalla Bench ACEC has been established by the BLM to protect and manage the desert tortoise population in this region. The Kaiser railroad passes through the westernmost extent of this ACEC.

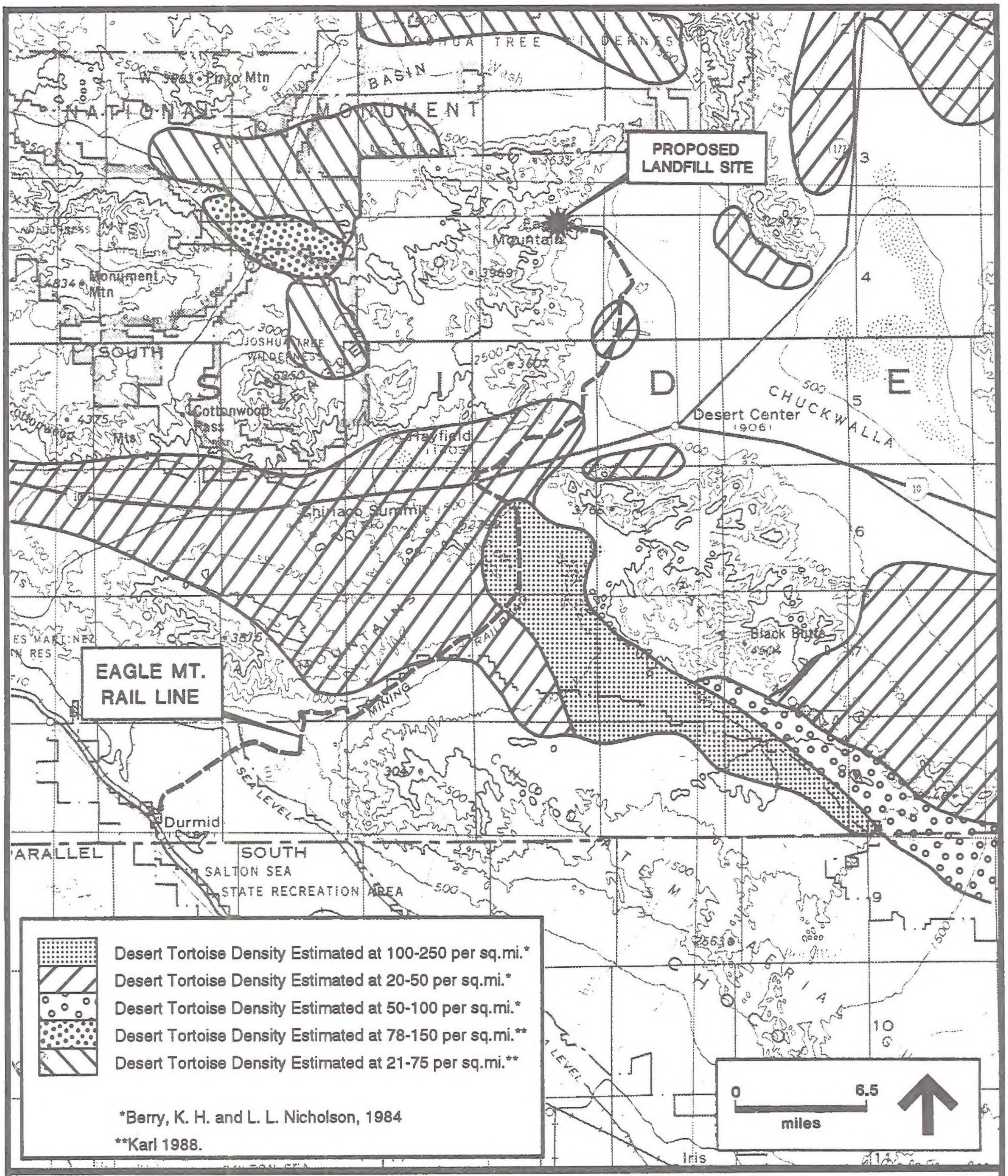

FIGURE 12. DESERT TORTOISE DISTRIBUTION

In conjunction with the preparation of the draft EIS/EIR for the Eagle Mountain landfill project, a biological survey was conducted between October 30, 1989 and January 30, 1990 to document the presence and abundance of biological resources on the project site (RECON 1991). A total of 69 person-days was expended for the biological survey. Additional tortoise surveys were conducted on October 8 and 9, 1991, and January 21, 1992, to assess tortoise relative densities in the vicinities of Eagle Mountain Road, Kaiser Road, and Eagle Mountain rail line (Attachment 3).

1) Eagle Mountain Landfill Site. The small amount of desert tortoise sign found near the proposed Eagle Mountain landfill site was in a flat area south of the Eagle Mountain townsite on a parcel of public (selected) lands outside of the project boundary (Figure 13). Any potential impacts to desert tortoise in this area will be dealt with in the environmental documents to be prepared for the Specific Plan Area of the Eagle Mountain townsite. The closest major tortoise population to the landfill site is in the Pinto Basin in Joshua Tree National Monument, approximately 5 to 6 miles to the north and west. Tortoise densities of 100 to 180 tortoises per square mile have been found in this area in recent years (Karl 1988, Freilich and Moon 1991).

2) Eagle Mountain Railroad Right-of-Way. The Eagle Mountain railroad right-of-way falls within the BLM CDCA. Portions of the railroad fall within the Chuckwalla Bench ACEC and within Category 1 and 3 designated desert tortoise habitat, as shown in Figure 3. Category 1 habitat areas are those which are the most important for management consideration and Category 3 is the lowest. Portions of the CDCA have been surveyed by BLM for tortoise densities (Berry and Nicholson 1984). Tortoise densities of 100 to 250 animals per square mile have been reported in habitat along the Eagle Mountain rail line just south of I-10. Lower tortoise densities of 20 to 50 animals per square mile have also been documented along the other portions of the railroad right-of-way north and south of the interstate (see Figure 12).

Desert tortoise sign was observed throughout most of the habitat within the railroad corridor, south of the mine to the Coachella Canal (Figures 14a-e). Portions of the railroad right-of-way north of I-10, and directly south of I-10, showed the most sign within each mile of railroad corridor surveyed. At least one sign of desert tortoise was observed along every mile of the railroad corridor from approximately 10 miles north of I-10 south to the Coachella Canal.

3) Eagle Mountain Road, Road Extension, and Rail Spur. Habitat in the Eagle Mountain Road/Rail Spur corridor is generally made up of very open-brush vegetation and desert pavement plains. Some of the habitat is very rocky, with a few drainages, and one major wash crossing the corridor. Although much of this area is classified as Category 3 desert tortoise habitat, little sign of tortoise activity was found during the field surveys (Figures 15a and 15b).

4) Kaiser Steel Resources Properties. Desert tortoise sign, including burrows, pallets, and scat, was observed on most of the Kaiser Steel Resources-owned parcels along the railroad right-of-way proposed for exchange with the BLM. In the parcel north of I-10, the habitat gradually changed from high quality tortoise habitat in the southwest to low quality habitat in the northeast. The two parcels directly south of I-10 also showed signs of a relatively dense population of tortoises. The parcels just north of Coachella

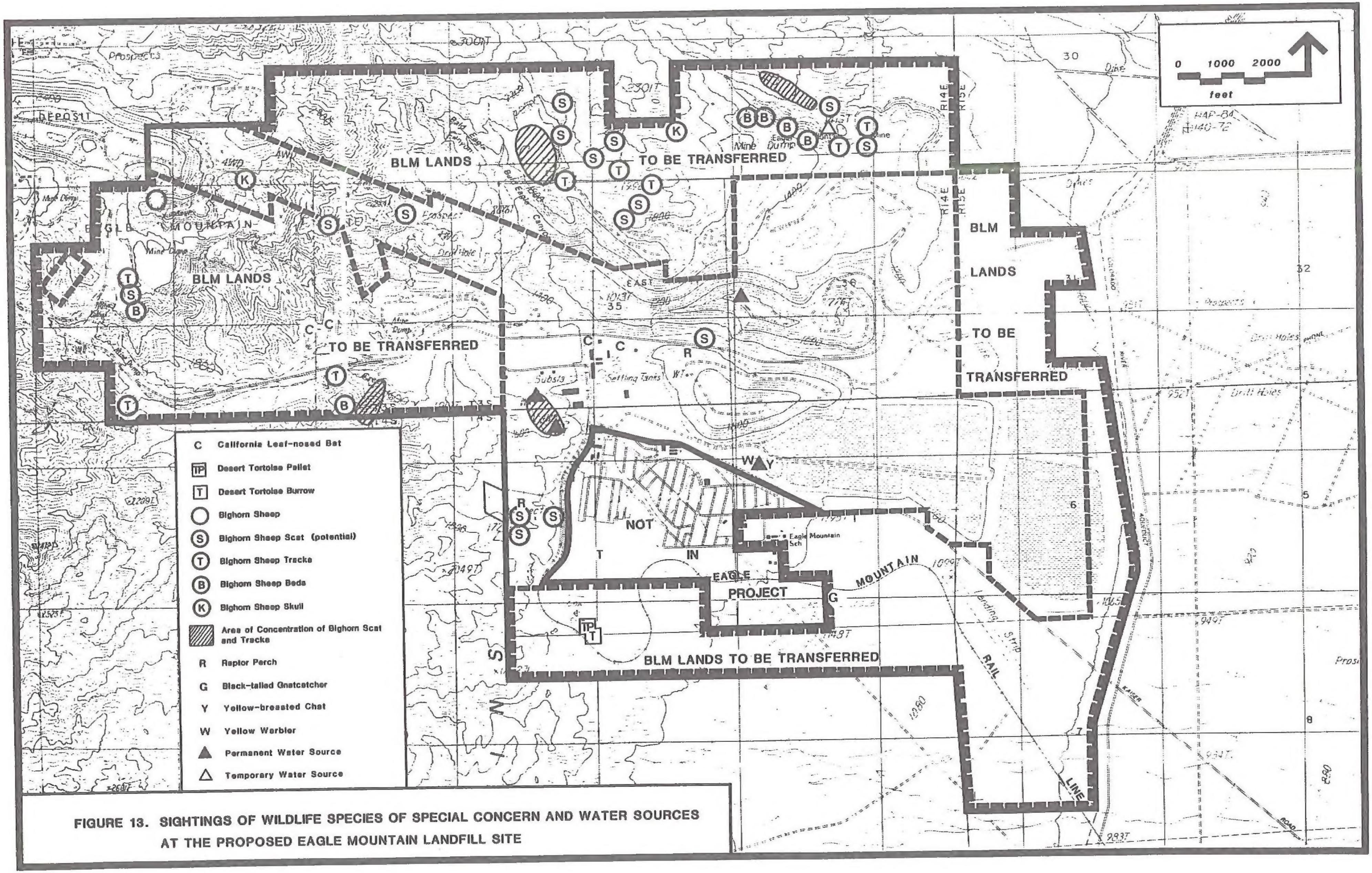

FIGURE 13. SIGHTINGS OF WILDLIFE SPECIES OF SPECIAL CONCERN AND WATER SOURCES AT THE PROPOSED EAGLE MOUNTAIN LANDFILL SITE

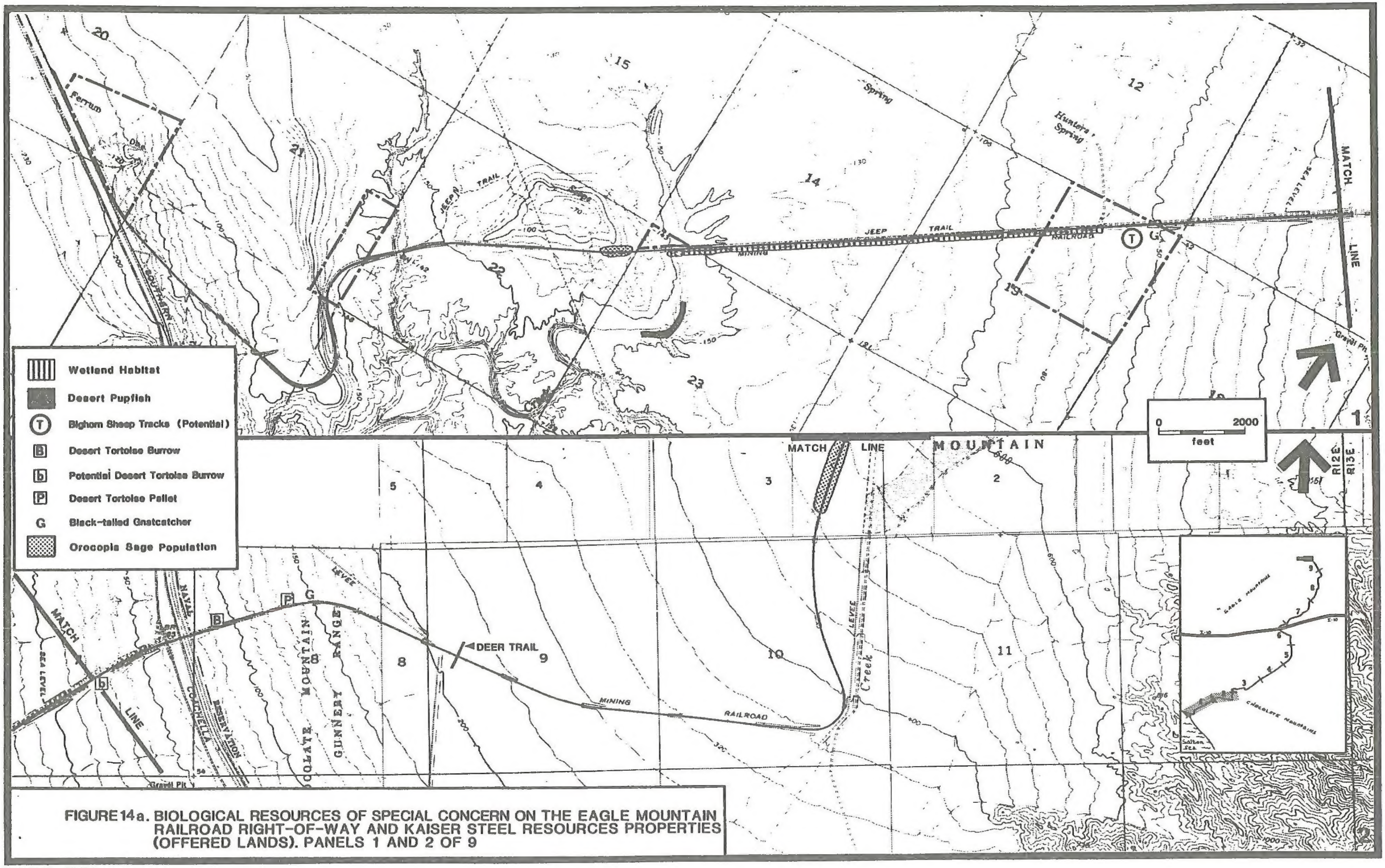

FIGURE 14a. BIOLOGICAL RESOURCES OF SPECIAL CONCERN ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY AND KAISER STEEL RESOURCES PROPERTIES (OFFERED LANDS). PANELS 1 AND 2 OF 9

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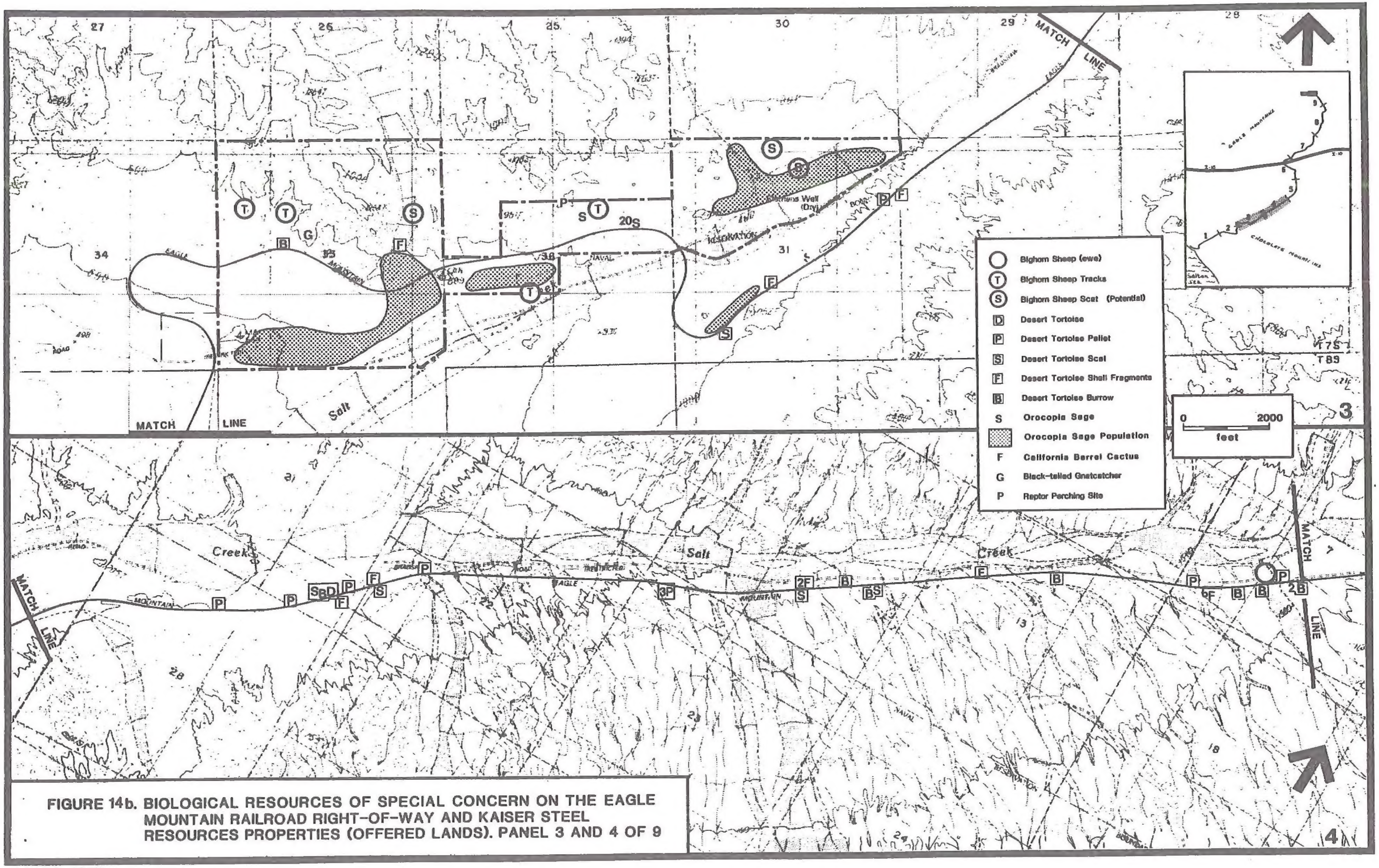

FIGURE 14b. BIOLOGICAL RESOURCES OF SPECIAL CONCERN ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY AND KAISER STEEL RESOURCES PROPERTIES (OFFERED LANDS). PANEL 3 AND 4 OF 9

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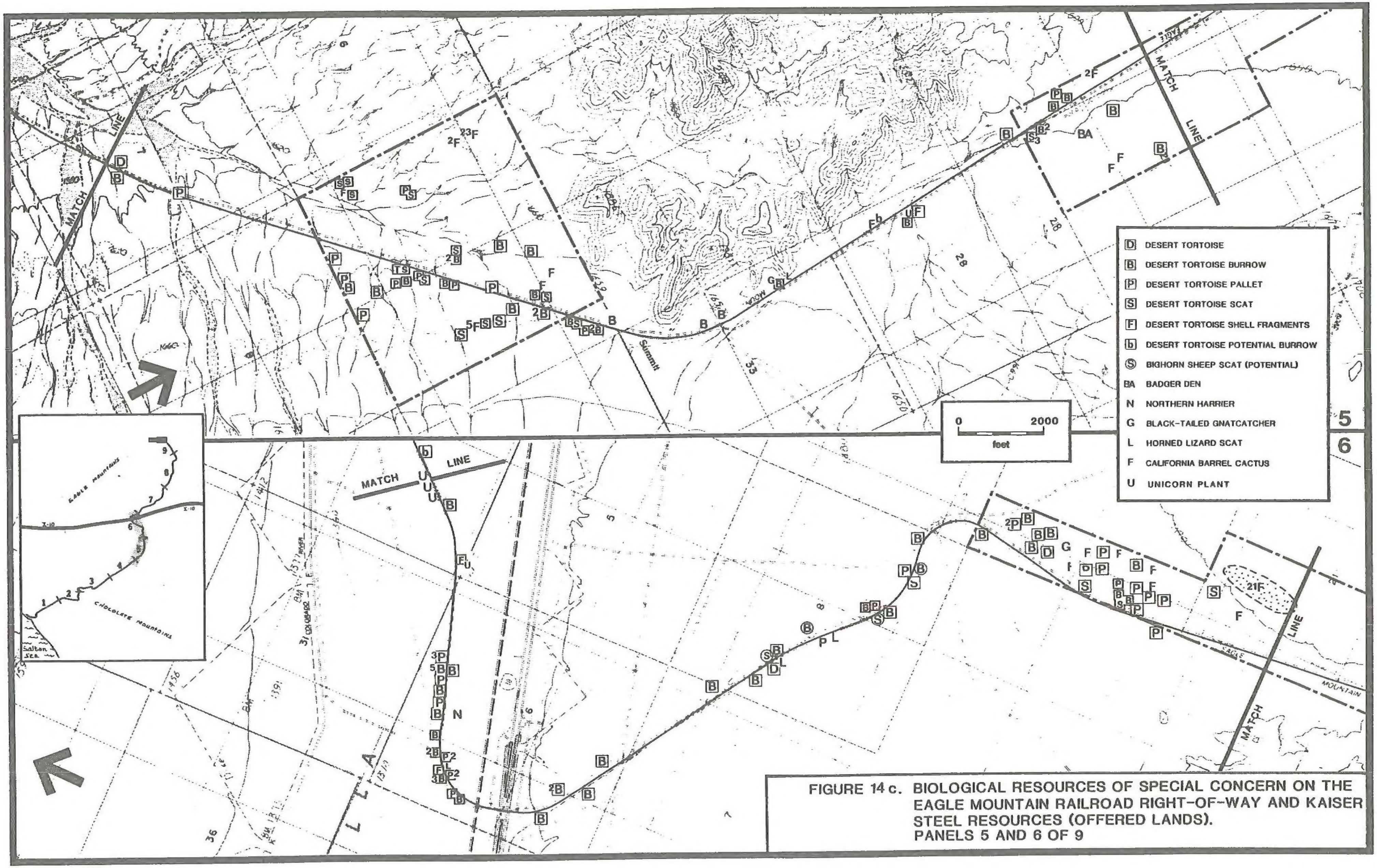

FIGURE 14 c. BIOLOGICAL RESOURCES OF SPECIAL CONCERN ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY AND KAISER STEEL RESOURCES (OFFERED LANDS).
PANELS 5 AND 6 OF 9

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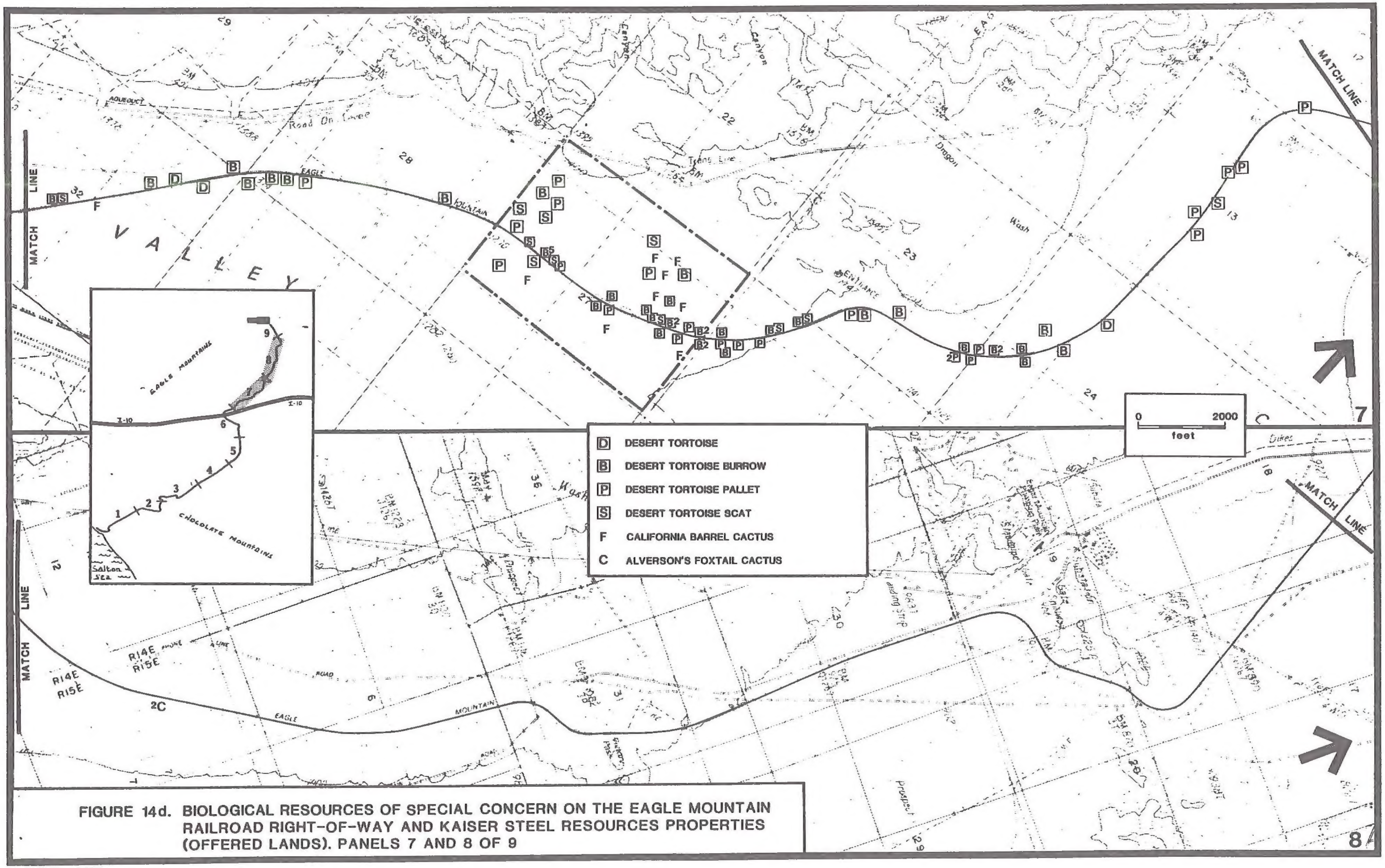

FIGURE 14d. BIOLOGICAL RESOURCES OF SPECIAL CONCERN ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY AND KAISER STEEL RESOURCES PROPERTIES (OFFERED LANDS). PANELS 7 AND 8 OF 9

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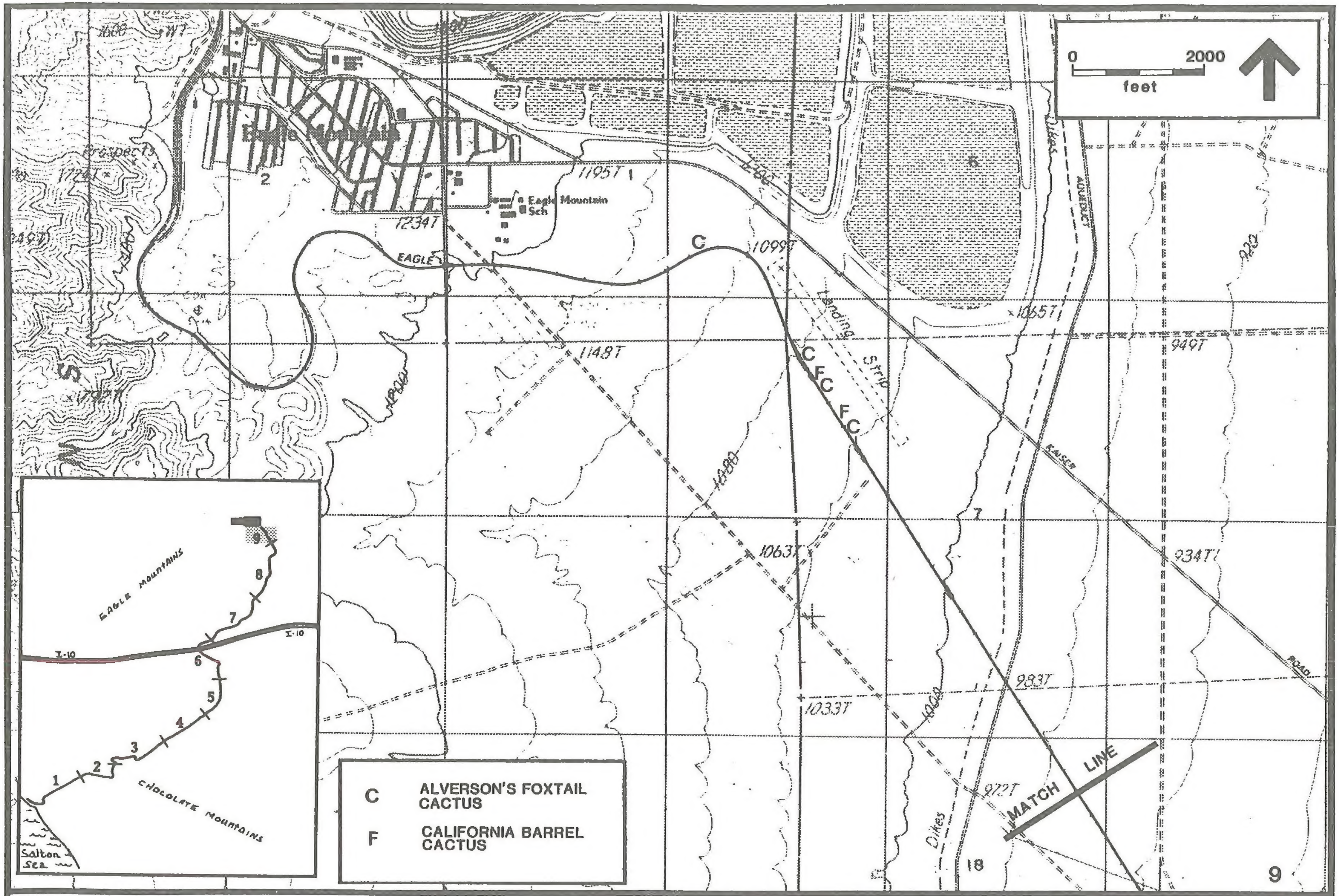

FIGURE 14e. BIOLOGICAL RESOURCES OF SPECIAL CONCERN ON THE EAGLE MOUNTAIN RAILROAD RIGHT-OF-WAY, PANEL 9 OF 9

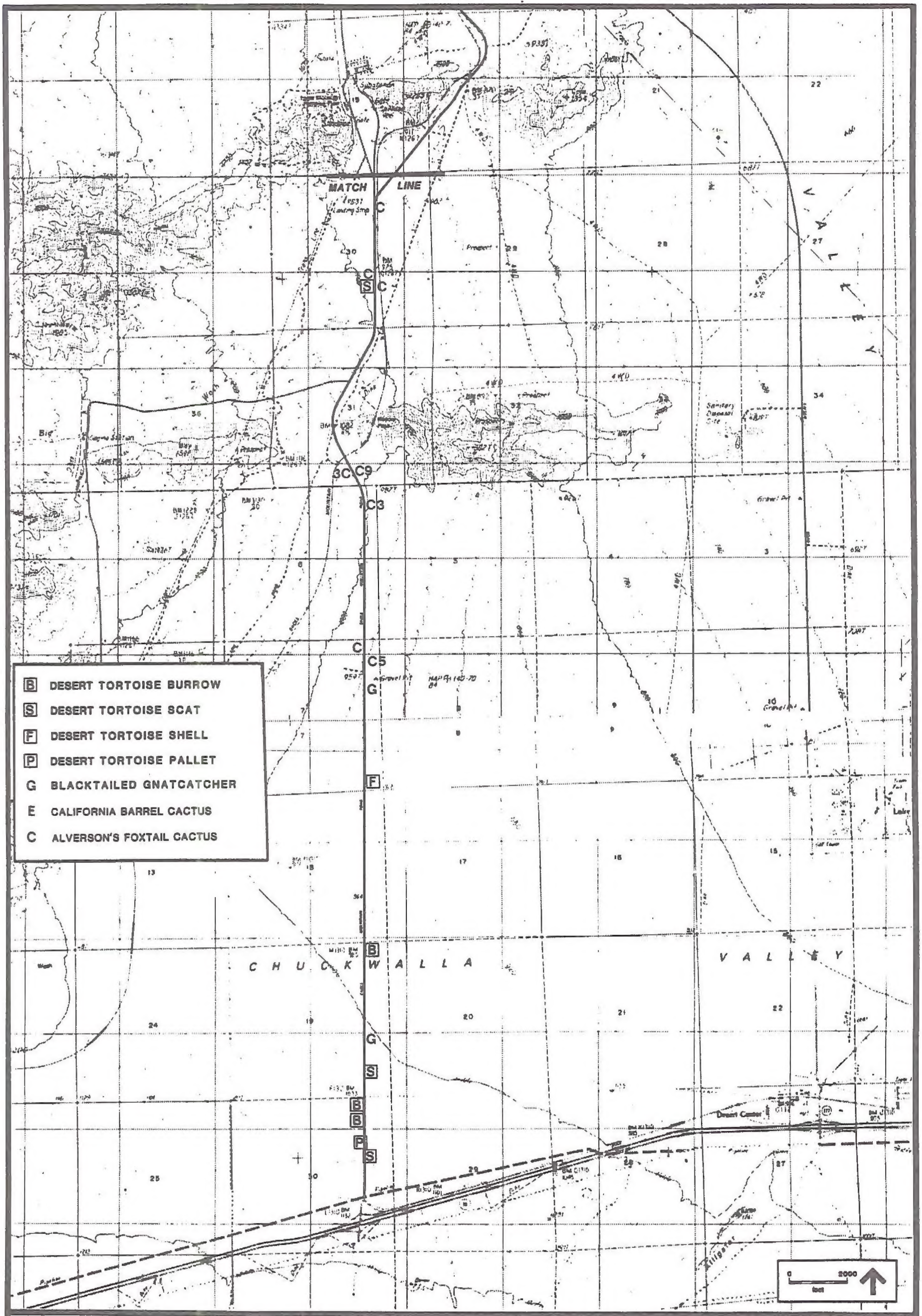

FIGURE 15a. BIOLOGICAL RESOURCES OF SPECIAL CONCERN ON EAGLE MOUNTAIN ROAD, MAP 1 OF 2

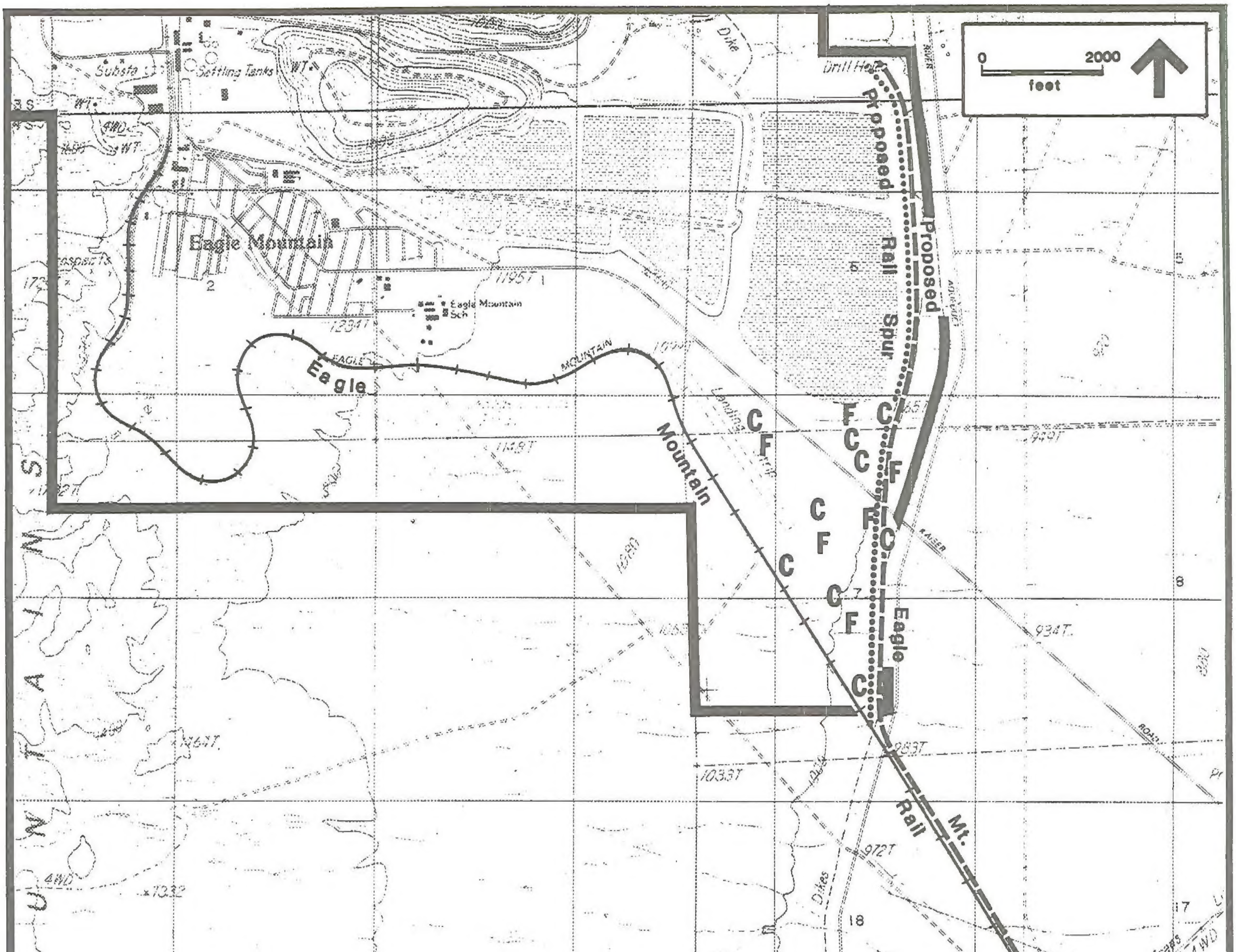

FIGURE 15b. BIOLOGICAL RESOURCES OF SPECIAL CONCERN ON EAGLE MOUNTAIN ROAD EXTENSION AND RAILROAD SPUR

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Canal showed little evidence of utilization by tortoises. Only one shell and one burrow were seen in the berm along the railroad on these parcels. No tortoise sign was observed in any of the three parcels south of the Coachella Canal.

b. Project Impacts.

1) Eagle Mountain Landfill Site. The landfill does not extend into desert tortoise habitat; thus, no direct construction impacts to desert tortoise habitat will occur in the landfill site area.

Indirect impacts to tortoises in the vicinity of the Eagle Mountain landfill site, Pinto Basin portion of Joshua Tree National Monument, and the Chuckwalla Valley, could potentially occur from increased raven predation upon juvenile tortoises. Landfills attract ravens because of the easily obtained food source and ravens have been observed traveling up to 30 miles from nesting territories to landfills. The additional food source from landfills does not discourage predation upon juvenile tortoises near the landfill and near the raven's territories. Additional food sources increase the size and number of raven clutches and the successful fledging of birds, thus, increasing the local raven population. A potential increase in the local raven population, coupled with the movement of ravens into habitat near the landfill, could result in increased tortoise losses from predation.

Joshua Tree National Monument currently has no raven control policy or program. The park recently initiated a raven monitoring program and they are developing a desert tortoise management plan. This plan would include raven predation monitoring, tortoise studies, raven nesting studies, raven counts, and number of tortoise remains found under nests (Moon, pers. comm. 1990).

Tortoises may also be impacted through vandalism, illegal collecting, off-road-vehicle use, and possibly the release of captive tortoises infected with Upper Respiratory Tract Disease into the adjacent wild population, thus spreading this fatal disease. These indirect impacts would be associated with the general increase in human activity, especially in the vicinity of the town of Eagle Mountain.

Water drainage patterns will be altered in the vicinity of the landfill site due to project implementation. As the east pit of the mine is filled with refuse, water from Eagle Creek and Bald Eagle Creek drainages, currently diverted to the east pit, will be channeled out to the east, across the MWD canal, and allowed to flow into the desert. This flow pattern more closely resembles the original hydrology pattern that existed before the Eagle Mountain mine became active. However, high water flows could occasionally occur during storm periods, and this could potentially impact desert tortoises immediately east of the mine site. Recent surveys did not show tortoise activity in this area, but the potential exists for some short-term impacts. Because of the low tortoise activity east of the mine site, and the fact that flash-flooding is a natural occurrence in tortoise habitat, impacts to the desert tortoise from changes to water flow patterns are not expected to be significant.

2) Eagle Mountain Railroad Right-of-Way. Implementation of the project involves the reintroduction of rail service, with an eventual maximum

traffic rate of 12 train passages per day. Desert tortoises currently occupy the habitat immediately adjacent to and sometimes within the railroad bed. Because of this, impacts to desert tortoises could occur with the resumption of maintenance and regular rail service. The rail line was last active in 1986.

i) Track Maintenance and Repair. Maintenance and restoration to prepare the rail line for service will consist of minor repairs and replacement of segments of rail and ties, and cleaning out culverts which pass water under the railroad bed. These activities could affect tortoises by burying them in burrows within the rail bed and burying unoccupied burrows. Unoccupied burrows are an important resource for tortoises because they move from burrow to burrow and use the burrows to escape inclement weather. These potential impacts would be temporary and would occur periodically along approximately 10 miles of railroad through BLM Category 1 tortoise habitat, 18 miles of Category 3, and 24 miles of uncategorized habitat. Monitoring of tortoise burrows within the rail corridor will be necessary before, during, and after repair activities to assess actual impacts.

During rehabilitation and routine maintenance activities along the railroad, the storage of equipment and material, parking of vehicles, and other staging activities will be confined to three currently disturbed sites at Ferrum, Red Cloud, and Summit. Total area of these three sites is approximately five acres. No current tortoise habitat is anticipated to be impacted from staging activities.

All weed/plant control within the rail line right-of-way will be done by hand. No herbicides or other chemical controls that might be toxic to the desert tortoise will be used. Therefore, no significant impacts are expected from weed abatement activities.

ii) Train-kills. Some tortoises may be hit by trains during the course of rail line operations. The frequency of train-kills cannot be accurately determined at this time. Although tortoise sign was observed in small amounts on the tracks, it appears that the berm and tracks form a barrier to tortoises which, while not completely preventing crossover travel, reduces tortoise movements in these areas.

iii) Noise. No scientific research has been conducted on the impacts of noise on the desert tortoise. Therefore, some educated assumptions need to be made in evaluating this potential impact. Peterson (1966) conducted a study on hearing capacities in 13 species of lizards, representing 7 families. His conclusions were that the reptilian ear was, in general, less sensitive to sounds and responded to a much narrower range of sound frequencies (400 to 3,000 Hz) than the mammalian ear. Because of its slightly more primitive ear, the wood turtle was found (Peterson 1966) to be even less sensitive to sound than lizards and sensitive to lower frequency sounds (100 to 1,000 Hz). The desert tortoise may respond in a similar manner. However, Peterson also found that those lizards that were more vocal tended to be more sensitive to sounds. The desert tortoise is known to use a variety of vocalizations (Patterson 1976), but whether this has resulted in greater sensitivity to sounds compared to other reptiles is not known.

Bondello et al. (1979) found that the Mojave fringe-toed lizard (*Uma scoparia*) experienced permanent hearing loss when exposed to sound levels of 100 dBL (95 dBA) for a cumulative time of 500 seconds. The maximum sensitivity of this species is in the 1,000 to 1,600 Hz range (Werner 1972). These sound intensity and frequency ranges are assumed to be typical for desert-dwelling lizards. Bondello and Brattstrom (1979) concluded that because of naturally low sound levels and sound attenuation in the hot dry air of desert habitats, desert lizard species were likely to have evolved acute senses of hearing. However, much of the importance of hearing involves prey acquisition and predator avoidance. Neither of these factors is likely as important to the desert tortoise as it is to carnivorous or insectivorous lizards. Herbivorous desert tortoises do not require acute hearing to forage for food, and predator avoidance does not involve fleeing, as it does in most lizards, but retreat into a shell. Also, the number of potential predators upon tortoises is considerably smaller than for lizards, except possibly for juvenile tortoises. However, tortoise vocalizations are complex (Patterson 1976) and may be important in intraspecific communications in aggressive and sexual encounters.

Detailed sound sensitivity curves have been determined for three species of tortoises, Horsefield's terrapin (*Testudo horsfieldi*), red-legged tortoise (*Geochelone carbonaria*), and Bell's eastern hinged tortoise (*Kinixys belliana*) (Wever 1978). *T. horsfieldi* was found to have excellent sensitivity in the range from 100 to 800 Hz--at -60 dB. For a tortoise this is a proficient ear, but is poor compared to other vertebrates. For *G. carbonaria* the sensitivity is only fair, with the best frequency range being 80 to 400 Hz. The findings for *K. belliana* were similar to those above, and demonstrate an ear of average to good ability for frequencies of 30 to 600 Hz. In summary, the turtle/tortoise ear is well developed and sensitivity is good, but only in the low frequency range of 100 to 700 Hz. Turtles and tortoises, while sensitive to lower frequency sounds, have a restricted range of sensitivity compared to other animal species. It is estimated that turtles/ tortoises have a hearing range of 5 octaves, while mammals such as the cat, or man, have a range of 9 to 10 octaves (Patterson 1966).

Trains generate a wide range of sound frequencies caused by the movement of metal wheels over the metal rails and by the impact of wheels with joints between lengths of rail. The range of sound frequencies expected from the Eagle Mountain railroad is within the 80 to 2,000 Hz range (Swing and Pies 1973). Turtles and tortoises are sensitive to only a narrow range of frequencies (100 to 700 Hz) within the sound spectrum created by a passing train. The entire range of probable tortoise sensitivity is within the sound spectrum created by a passing train. Very low frequency ground vibrations (2 to 10 Hz) created by the impact of train wheels with rail joints are likely below the level of sensitivity of the tortoise's ear. These vibrations may be transmitted through the body of the tortoise and may be "heard" indirectly. However, measurements of electrical potentials on the auditory nerve after vibrations were introduced to a turtle's leg showed no response (Wever 1978).

Train noise levels were measured on two separate occasions and at two locations at a distance of 50 feet from Southern Pacific railroad tracks (RECON 1991). On May 3, 1990, train noise measurements were taken along tracks in the Whitewater Preserve (for the Coachella Valley fringe-toed lizard), with a recorded maximum dBA of 95. In February of 1990, noise measurements were also taken adjacent to tracks at Corvina Beach, with a recorded peak noise level of 73.7 dBA. The expected noise level of passing trains along the Eagle Mountain rail line will likely fall within this 74 to 95 dBA range at a distance of 50 feet. The train length for each train trip is expected to be approximately 4,000 feet. If a speed of 30 to 40 miles per hour (mph) is anticipated, then maximum noise levels will last 55 to 73 seconds each train trip.

Several tortoise behavior patterns and physiological characteristics would likely help reduce potential noise impacts to tortoises. First, as mentioned previously, tortoises are likely not as sensitive to sounds as other reptiles or humans. Second, tortoises spend much of their time underground, which would reduce the intensities of sound to which they would be exposed. When they are active they tend to be above ground in early mornings and late afternoons and inactive during the hottest portions of the day, at least in summer. Finally, tortoises spend November through February in an inactive state in their burrows and are exposed to reduced train noise.

In an attempt to directly answer the question as to whether the desert tortoise is hindered or excluded from utilizing potential habitat along active rail lines, several surveys were conducted along active rail lines, some with traffic levels equal or greater than those planned for the Eagle Mountain rail line. All rail lines selected for survey were sufficiently removed from highways and roads to preclude their influence on the tortoise populations near the rail lines. On an initial reconnaissance survey in the vicinity of Mojave, California (February 6, 1991), two train right-of-ways were examined for tortoise activity. A 2.5 mile length of the Southern Pacific railroad tracks between Mojave and Searles was walked, with all tortoise sign recorded up to 100 feet from both sides of the tracks. The surrounding tortoise habitat was of very high quality (Marlow, pers. comm. 1991). The train traffic on this rail line averages two trains per day (Waters, pers. comm. 1991). A total of 22 burrows/pallets were recorded along this 2.5 mile transect, with 19 of these being judged active within the past year. Eighteen of the 22 sign records were 40 to 60 feet from the tracks. This distance corresponded to the location of a large dirt berm north of the tracks placed for drainage control.

The second rail line examined was the Atchison Topeka and Santa Fe line between Mojave and Barstow, California. Within a one-mile section of this track, 11 tortoise burrows (7 judged recently active) were found in the south face of the 8- to 10-foot tall berm supporting the railroad tracks. This track averages 20 trains per day (Waters, pers. comm. 1991). The surrounding habitat was relatively poor in quality for desert tortoise, with little creosote bush present.

In order to compare desert tortoise activity along an active rail line versus similar habitat away from the effects of the rail line, a set of tortoise burrow transects was run in the eastern Mojave Desert (March 2-3, 1991). The transects were set up along six miles of the Union Pacific railroad tracks running from Barstow to Las Vegas, Nevada. The specific site was between the California-Nevada border and Nipton, California. This rail line averages 20 trains per day (Waters, pers. comm. 1991). All burrows within 30 feet of the tracks were recorded and their conditions categorized. Burrows were placed in one of four possible categories: 1) Active - evidence of recent use (fresh tracks or scats); 2) Recently Active - no plant growth in the mouth of the burrow, no significant drifting of sand into the burrow mouth, or the presence of windblown trash; 3) Inactive - the presence of plant growth, sand, trash, or spider webs in the burrow mouth; and 4) Deteriorated - significant filling of burrow mouth with sand or collapse of burrow roof. A parallel 30 foot by 6 mile transect was run 0.25 miles west of the rail line in similar habitat. Habitat was creosote bush scrub. Figure 16 shows the results of the survey. A total of 20 tortoise burrows was found along the tracks, most within the track berm, while only 8 burrows were observed along the parallel transect away from the tracks. No active burrows were found due to the time of year of the survey. Tortoises had not yet emerged from their winter dormancy period.

The results of these surveys indicate that the desert tortoise is not excluded from utilizing habitat adjacent to active rail lines. The Eagle Mountain rail line is planned to carry a maximum of 12 train passages per day, well below the traffic levels on two of the surveyed rail lines discussed above. Circumstantial evidence suggests that noise impacts to tortoises from train activity are not significant to survivability. Preliminary evidence suggests that railroad track berms may actually be an attractant to local tortoises because of the good burrowing substrate they provide (e.g., loose soil and vertical digging surface). Increased water runoff along the berm may also support more tortoise forage plants, although this is speculation.

iv) Vibration. Within the Eagle Mountain railroad right-of-way, the vibration from passing trains has the possibility of causing the collapse of tortoise burrows. It seems likely that buried tortoises could extricate themselves from most collapsed burrows since they are good diggers. However, the results of the tortoise burrow survey presented in Figure 16 do not show a higher proportion of deteriorated (i.e., collapsed) burrows in the railroad track berm than in the areas removed from the effects of train-generated vibration. Like noise, we do not know the precise impacts of vibration on behavior or physiology. As is the case with noise impacts, there is some evidence that train-related ground vibrations are not significantly impacting desert tortoises, or excluding them, from using habitat along the tracks.

v) Tortoise Population Fragmentation. The reactivation of the railroad is likely to act as a barrier to east-west/west-east tortoise movements. Cross-track movements could be halted or hindered by tortoise deaths from train-kills. Any artificial barrier, such as some form of tortoise-proof fencing, that is installed along the railroad track to prevent tortoises from getting onto the track could aggravate this problem further. A physical barrier could potentially result in significant impacts to the two subpopulations of tortoises west of the tracks, one subpopulation south of I-10 (inhabiting 35,000 acres) and one north of I-10 (inhabiting 42,000 acres). A population viability analysis on the desert tortoise done by Gilpin (1990) in conjunction with the Desert Tortoise Short-Term Habitat Conservation Plan for Clark County, Nevada, strongly indicated that a minimum viable population of tortoises requires a population of 20,000 tortoises. At a density of 100 tortoises per square mile, it would be necessary to preserve intact 128,000 acres of contiguous habitat to sustain a viable tortoise population long-term (i.e., 500 years). The regional tortoise population has already been fragmented somewhat by I-10 and the Coachella Canal, and if the subpopulations west of the Eagle Mountain rail line are permanently isolated and their long-term viability seriously threatened, their loss would be a significant impact. An area that supported a tortoise subpopulation which had been decimated by a natural or man-caused catastrophic event (e.g., fire, disease, severe weather, pollution, etc.) could not be recolonized if it was isolated from other tortoise subpopulations,

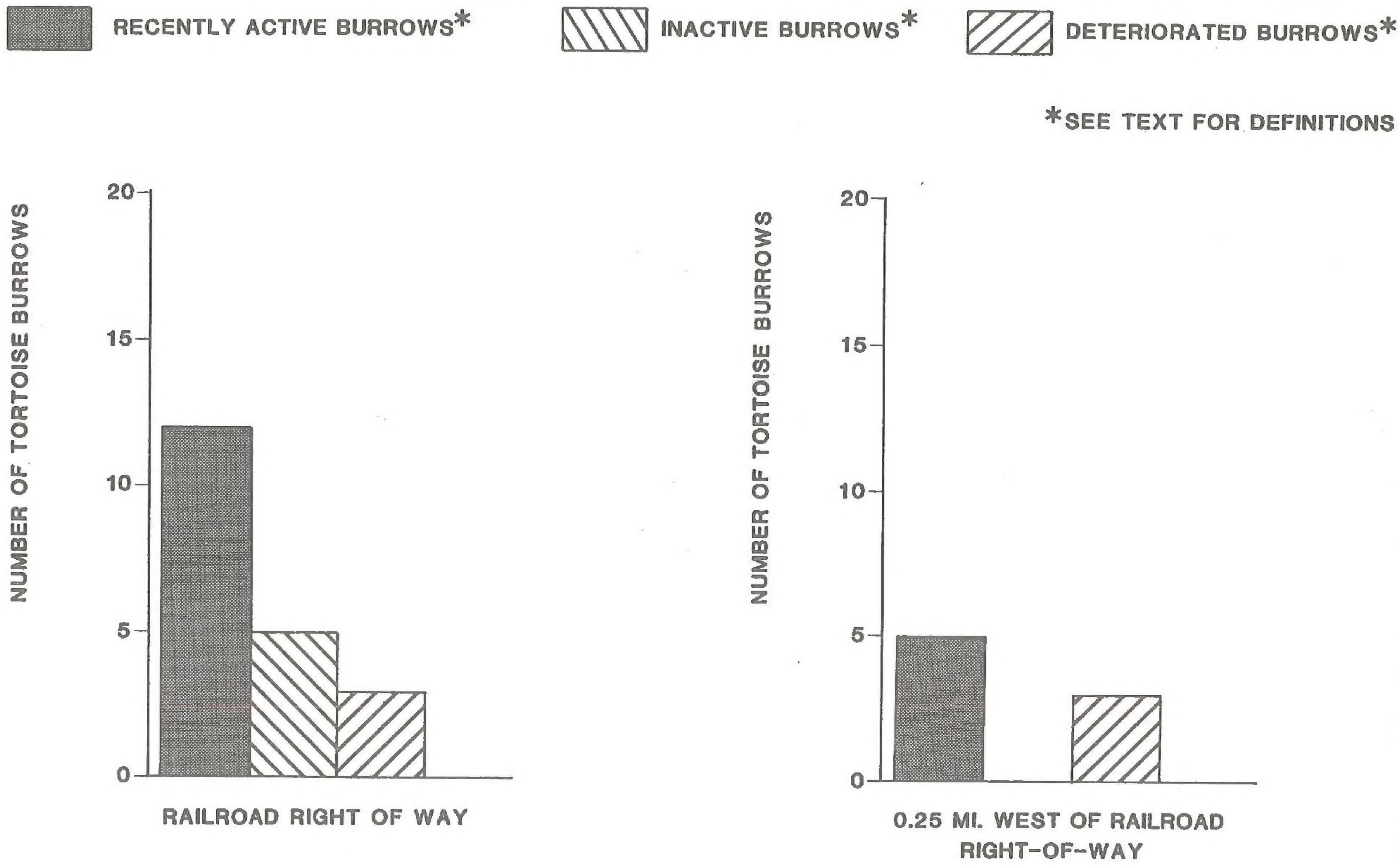

FIGURE 16. COMPARISON OF NUMBER OF DESERT TORTOISE BURROWS ALONG SIX MILES OF UNION PACIFIC RAILROAD RIGHT-OF-WAY (AVERAGE OF 20 TRAINS PER DAY) AND SIX MILES 0.25 MILES FROM THE RAILROAD RIGHT-OF-WAY

thus threatening the entire population. It is believed that population fragmentation could be a potentially serious threat to the desert tortoise.

3) Eagle Mountain Road, Road Extension, and Rail Spur. Significant impacts to desert tortoise habitat will occur with improvements and widening of the Eagle Mountain Road, and with the building of the extension of Eagle Mountain Road, and the rail spur. Eagle Mountain Road will be widened from its current width of 20 feet to 40 feet, within a 110-foot-wide right-of-way. These road improvements will be carried out over a seven-mile length of the right-of-way from I-10 north. Assuming a worst-case scenario, where the entire right-of-way is disturbed, 76.4 acres of Category 3 tortoise habitat would be lost.

The proposed Eagle Mountain Road extension and rail spur are a continuation of the Eagle Mountain Road 110-foot-wide right-of-way. The proposed 40-foot-wide road extension follows a current 15-foot-wide dirt road for 3.5 miles, and creates a totally new road for 2.5 miles, where it ends at the Phase II handling yard. The new rail spur is also within this proposed 100-foot right-of-way for its final 2.5 miles. Again, assuming that the entire 110-foot right-of-way will be disturbed, a total of 73.6 acres of tortoise habitat would be lost. Therefore, for all road improvements and road and rail construction, a total of 150 acres of Category 3 desert tortoise habitat would be permanently removed by the project, along with any tortoises residing in this habitat. Although this portion of the project is classified by the BLM as Category 3 desert tortoise habitat, little tortoise sign was seen during the most recent field surveys (see Figures 13 and 15a, and Attachment 3). The loss of 150 acres of habitat represents a worst-case scenario that assumes that the entire 110-foot-wide right-of-way will be disturbed. Actual impacts are likely to be less.

The projected 24-hour per day truck traffic along this road would have a significant impact upon the tortoises in the immediate vicinity of the road due to tortoise deaths from road kills. Nicholson (1978) found that on average tortoise density was reduced up to 800 meters from major roadways because of the road kill effect.

An increase in road traffic would cause an increase not only in tortoise road kills, but in the deaths of other wildlife species attempting to cross the road. This has the potential to increase the number of potential tortoise predators, especially the raven, which scavenges road kills. If the number of ravens increases, this could have a significant impact upon the local tortoise population because of the large number of juvenile tortoises ravens may take in the course of foraging for food.

As discussed under the topic of the Eagle Mountain rail line, high traffic flow along the road may act as a barrier to tortoise movement, thus causing population fragmentation and possible extinction of local subpopulations, a significant impact.

4) Kaiser Steel Resources Properties. Desert tortoise populations on the Kaiser Steel Resources properties offered in the BLM land exchange (particularly those shown on Figure 14c and d) may be affected by noise and population fragmentation. The former may not be significant, while the significance of the latter is unknown.

5) Cumulative Impacts. Loss of desert tortoise habitat due to project development is minor and would not significantly add to the cumulative loss of habitat in the region. However, fragmentation of the tortoise population could be a significant cumulative impact in the region. The tortoise population in the region has already been fragmented somewhat because of I-10 and the Coachella Canal. Reactivation of the Eagle Mountain rail line, and the introduction of 200 truck trips per day on Eagle Mountain Road, could increase fragmentation and cause a significant cumulative impact to the tortoise population in the region. The rail and road system could act as barriers to tortoise movements and cause subpopulations to become isolated to the point where a random natural event (e.g., disease, drought, fire, etc.) could cause the extinction of one or more of these subpopulations. These depopulated areas could not be recolonized because of their isolation.

A potential increase in the regional raven population could occur as result of the establishment and operation of the Eagle Mountain landfill project. This would potentially add to the increase in raven activity in the desert region of Riverside County caused by a general increase in human activity (i.e., development), and cause a significant cumulative impact to the desert tortoise. Ravens are known to prey upon juvenile tortoises, and have the potential to impact the tortoise populations at both the local and regional level. Any increased depredation of tortoises would be considered a significant cumulative impact.

Several past, present, and future impacts have affected or will affect the tortoise populations in the vicinity of the proposed landfill and rail line. Past and/or present activities in the immediate area include military tank maneuvers on the Chuckwalla Bench (1940s), jet and bombing activities in the Chocolate Mountains Gunnery Range, 38 years of railroad activity (Eagle Mountain rail line) including application of toxic herbicides, recreational activities, off-road activities, transmission lines, aqueduct construction, existing and proposed correctional facilities, agricultural fields, and mining (including the Red Cloud Mine which abuts the northwest edge of the Chuckwalla Bench tortoise population). The northwest end of the Chuckwalla Bench tortoise population is heavily impacted by the presence of Interstate 10. There is little evidence that most of these activities will cease in the future.

The Chuckwalla Bench tortoise population has experienced a significant decline during the past 10 years. One contributor to this decline may be a shell necrosis. The cause of this condition may be a natural pathogen, or be related to human-caused impacts; the origin is unknown.

Several additional activities are proposed or expected for the general vicinity including increased commercial and residential development around Blythe and Desert Center; a 500 kV transmission line between Devers and Palo Verde; a power plant at Palo Verde; and a Southern California Edison gas pipeline. Each of these development activities is likely to result in the loss of desert tortoise habitat. The increased human activity will also increase the potential for illegal collection and vandalism of the tortoise. Expanding centers of residential development will attract an increased number of ravens to the region, which could potentially increase predation upon the desert tortoise. As new roads and highways are constructed to service new developments, the potential for loss of tortoises due to vehicle traffic will increase, as will access to tortoise habitat for OHV use, and possibly population fragmentation.

c. Mitigation/Compensation

A desert tortoise recovery plan is currently being developed by the Desert Tortoise Recovery Team. Mitigation measures proposed here for the desert tortoise will be modified, if necessary, to conform to the recommendations in the recovery plan.

1) Eagle Mountain Landfill Site. To mitigate potential increases in raven populations from the presence of trash at the landfill site, a raven monitoring program will be conducted for the life of the project, including a minimum of two years of preoperation and postclosure monitoring. Monitoring shall conform to methodologies outlined by the BLM and shall be conducted in concert with other raven monitoring programs (e.g., Joshua Tree National Monument) in the CDCA. Figure 17 suggests some roadway transect routes that might be included in the raven monitoring program. Transect results will be expressed in terms of number of ravens observed per 100 miles of transect, to allow comparison with transect data collected by other agencies within the region. Monitoring of ravens will continue throughout the life of the landfill project, or until the agencies determine that they are no longer necessary.

Exposed trash at the landfill site, which could attract ravens, will be minimized by daily burial of all deposited trash. A minimum six-inch covering of dirt/mine tailings will be placed over deposited trash by the end of each working day. In most instances trash will be buried almost immediately after deposit. The active portion of the landfill will be fenced to aid in controlling wind-blown trash. This fencing should reduce the ability of other wildlife species such as the coyote and kit fox to utilize the refuse in the landfill. These species could potentially dig out and expose buried trash, thus, giving ravens access to the trash as well, but fencing should minimize this potential impact. A coordinated hazing program will be established to discourage raven use of the landfill during times when refuse is exposed, and large road-killed animals along truck routes will be promptly removed to prevent attracting ravens.

It is recommended that the use of the bird repellent methyl anthranilate be used, if feasible, to deter raven use of the landfill refuse. Experiments have been conducted using this FDA-approved food additive (i.e., grape flavoring) as a bird repellent on food crops and turf, with very good results (Cummings et al. 1991a; Cummings et al. 1991b). It is believed that this chemical compound could be sprayed on the landfill refuse either at the transfer stations or at the landfill site itself and prevent any significant raven use of the refuse (Cummings, pers. comm., 1992). Exact concentrations and spray mediums would need to be determined through a testing program. Because of the relatively benign nature of methyl anthranilate no significant environmental contamination would be anticipated.

Should monitoring indicate that the raven population is significantly increasing, despite passive control measures, and threatening tortoise populations, then an active raven control program will be implemented immediately. This program will include one or more of the following control

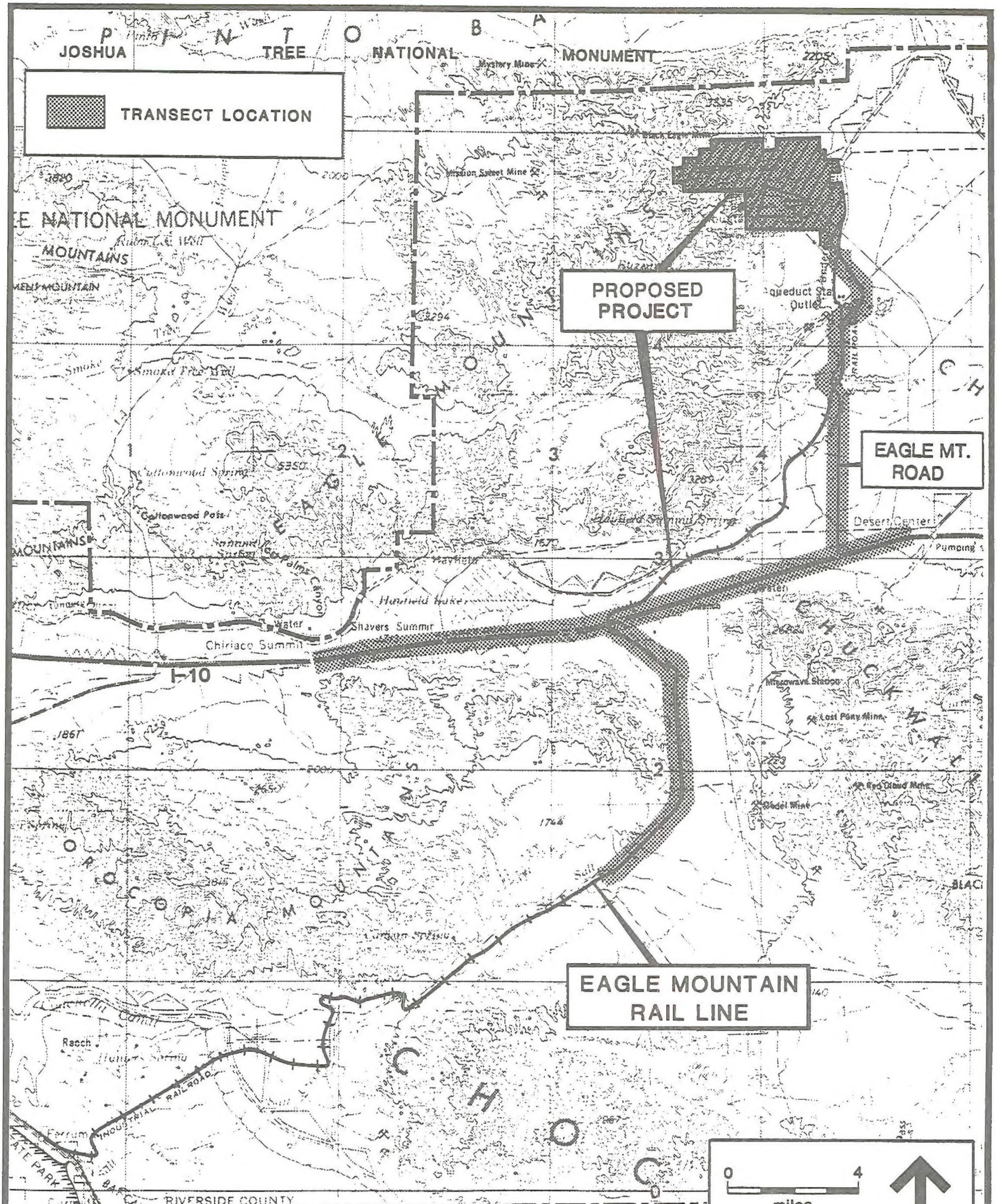

FIGURE 17. PROPOSED RAVEN MONITORING TRANSECT ROUTES

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measures: nest destruction, poisoning, shooting, alteration of landfill operations, or any other measures that the responsible agencies deem appropriate. All necessary depredation permits, plus a comprehensive raven management/control program, will be developed and in place before landfill operations begin. It is recommended that a Raven Monitoring Working Group be established at the time preconstruction raven monitoring begins. This working group should consist of representatives of the BLM, USFWS, CDFG, U.S. Park Service, MRC, and any other agency representative or individual that the federal and state agencies believe appropriate. This working group would oversee the raven monitoring and control program, evaluate monitoring data, and make decisions on the timing and implementation of the raven control program. If an active raven control program becomes necessary, but is not implementable due to political or legal constraints, then the impact to the desert tortoise would be significant but unmitigable.

2) Eagle Mountain Railroad Right-of-Way. To mitigate and compensate for any potential loss from track maintenance of tortoises inhabiting the 200-foot-wide rail corridor, a preconstruction survey for occupied tortoise burrows will be conducted along each section of railroad track that is repaired. All occupied burrows within 100 feet of the track will be examined for the presence of tortoises and conspicuously marked by a qualified biologist. Any occupied tortoise burrows that collapse during repair and maintenance activities will be immediately excavated, and the tortoise translocated to an artificial burrow no less than 300 feet from the original burrow site (as recommended by the Desert Tortoise Council [1990]). Any above-ground tortoises found within the rail corridor during repair procedures will also be translocated to an abandoned or artificial burrow no less than 300 feet from the rail line, if the on-site biologist believes it is threatened.

To mitigate for the potential loss of tortoises to train-tortoise collisions each train trip between February 1 through October 31, beginning in the year of permit issuance, will be preceded by a qualified biologist to survey and remove any tortoises found on or adjacent to the rail line. Removed tortoises will be placed off the rail line berm. This monitoring program will be conducted for a minimum of three years. At the end of three years, or earlier if deemed necessary by the USFWS and BLM, the monitoring data will be evaluated for areas where tortoise activity near the rail line is high enough to warrant placement of a barrier/culvert system. Exact locations and designs of barriers and culverts will be selected in the field with the direction of USFWS, BLM, and CDFG personnel. Several different tortoise barrier and culvert designs could be initially placed along the railroad corridor to study the effectiveness of the different designs. It is believed that sheet metal barriers 18 inches in height can be affixed directly to the railroad ties on the outside of the tracks during track rehabilitation, and that these metal strips should adequately prevent tortoise movement onto the tracks.

It is believed that the entire rail corridor should not be fenced, since this would fragment the tortoise population and be a much more significant impact to the desert tortoise population than the occasional tortoise train-kill. There is no guarantee that tortoises will use culverts under the tracks, so it is critical that they can still cross over the tracks and maintain population integrity. However, the project proponent is committed to placing a barrier/culvert system along any portion of the rail line where it would be required to protect the desert tortoise. At least 20 linear feet of ballast will also be placed between, and flush with, the rails at intervals (e.g., every 100 feet) along the portions of the rail line traversing tortoise habitat to aid the escape of any tortoises caught between the tracks.

A long-term tortoise population monitoring program will be instituted that will monitor changes in tortoise populations as the project proceeds. This program shall be approved by USFWS and BLM. The program will include two years of preconstruction monitoring. Monitoring will be conducted in the immediate vicinity of the Eagle Mountain railroad corridor using one mile transects paralleling and at incremental distances from the tracks. Transects will be conducted within and adjacent to the Eagle Mountain railroad right-of-way at distances of 10, 100, 200, 400, and 800 meters from the tracks. Figure 18 shows some potential locations of tortoise-monitoring transects. The monitoring program will show whether there are any long-term effects on the tortoise population from train noise and vibration. Although no noise- or vibration-related impacts to desert tortoises are expected from rail line operation, further mitigation/compensation measures may be required should monitoring indicate negative effects.

Transects to monitor raven populations will also be conducted along and adjacent to the rail line, so that any negative changes in tortoise populations can be attributed to either natural causes (e.g., respiratory disease), raven predation, or noise. If a decline in tortoise populations beyond the 200-foot-wide rail corridor can be shown to be caused by noise impacts, then further mitigation measures could be necessary, such as, scheduling of train trips to coincide with periods of tortoise inactivity or habitat compensation.

To mitigate for potential population fragmentation due to the active railroad acting as a tortoise barrier, existing culverts under the rail line will be cleaned out and repaired in such a way that they provide easy access for tortoises. New culverts may be placed in areas where current tortoise use of the railroad track berm is high. The design of all barriers and culverts, and their locations, will be approved by the USFWS and the BLM. Tortoise-proof barriers placed parallel to the tracks will be oriented to guide tortoises to culverts. During the course of tortoise population monitoring, culverts will be checked for evidence of tortoise use. The project proponent will regularly monitor the barrier/culvert system to check for sand and debris buildup, and provide for subsequent removal. In addition, the system will be repaired and maintained throughout the life of the project.

If culverts prove ineffective in allowing tortoise movements, then a translocation effort may be necessary. This would involve trading a few individual tortoises from each side of the tracks each year in order to exchange genetic material between disjunct populations. The feasibility of this measure has not been tested, however.

3) Eagle Mountain Road, Road Extension, and Rail Spur. Although Eagle Mountain Road did not show many signs of desert tortoise activity (see Attachment 3), this road is located in BLM classified Category 3 tortoise habitat. A preconstruction survey will be conducted by a qualified biologist, and all tortoises within the 150-acre construction zone will be removed to a safe distance (300 feet) in the immediate vicinity. As compensation for the loss of 150 acres of Category 3 desert tortoise habitat, habitat

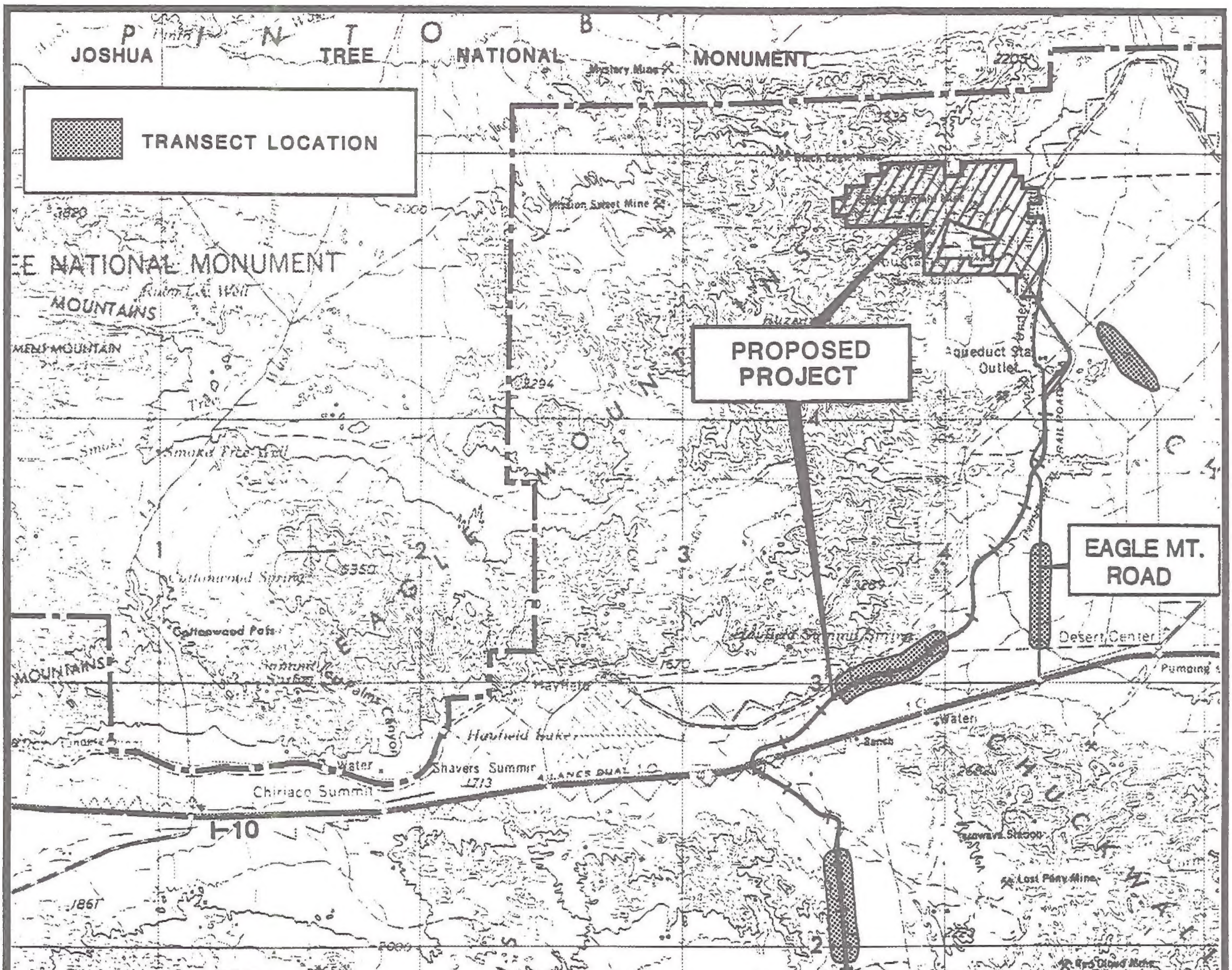

FIGURE 18. PROPOSED LOCATIONS OF TORTOISE MONITORING TRANSECTS

off-site will be purchased and dedicated as permanent open space. Using a BLM compensation formula, a multiplying factor of 2.5 has been calculated (Blymyer, pers. comm. 1991). Therefore, 375 acres (150 acres x 2.5) of desert tortoise habitat will be purchased as compensation for impacts. The exact parcel(s) to be purchased will be selected under the direction of the BLM. This land purchase will be made in the Chuckwalla Management Area.

To mitigate potential loss of tortoises to road traffic, appropriate tortoise-proof barriers will be installed on both sides of Eagle Mountain Road. An 18-inch vertical barrier (e.g., fencing) will be incorporated into the berm on each side of the improved Eagle Mountain Road. To allow for exchange of tortoises from one side of Eagle Mountain Road to the other culverts (at ground level and with dirt floors) will be placed along the road (a minimum of one per mile of road). Barriers will be aligned to guide tortoises to these undercrossings. Culverts will be placed at high points along the road right-of-way to reduce the need for diking and water diversions adjacent to the road. Potential exists for the tortoise population in the Pinto Basin to be linked to tortoise populations along Eagle Mountain Road, and the Chuckwalla Bench, through Big Wash, west of the road (just north of Victory Pass). This area should be monitored closely. It may be that placing barriers along Eagle Mountain Road near Big Wash may inhibit tortoise movements and reduce genetic interchange and population viability. Initially, barriers and culverts will be placed along both sides of Eagle Mountain Road between I-10 and Victory Pass (approximately 4.5 miles), the area of greatest tortoise activity. If monitoring indicates additional barriers are necessary north of Victory Pass they will be installed. A biologist will monitor Eagle Mountain Road and Kaiser Road daily for tortoise activity throughout the life of the project. All tortoises on the road will be moved 300 feet away from the right-of-way. A biologist will also be on call to remove tortoises reported in the roadway by trash truck drivers and local residents.

A mandatory local worker education program will begin before implementation of the landfill operation. The program will emphasize the legal protections afforded sensitive species and measures to minimize impacts to those species and their habitats. The program will include a handbook outlining the details of the protections and measures to be followed by each employee. The program will be extended to contracted truck drivers delivering solid waste to the project site, and on a voluntary basis to other local residents, in order to increase awareness of potential desert tortoise occurrence along Eagle Mountain Road and to receive any reports of tortoise sightings or road kills for prompt removal. It is believed that an education program will significantly reduce the likelihood of vandalism, illegal collection, release of diseased tortoises, and off-road-vehicle use in tortoise habitat.

The raven population along Eagle Mountain Road will be regularly monitored as part of the project-wide monitoring program. Increased traffic along this road is likely to increase the number of wildlife road kills available to scavenging ravens. If this raven population is found to increase, then an active raven control program will be instituted. An active raven control plan, along with appropriate depredation permits, will be developed and in place before landfill operations begin. Road-killed wildlife species found along the road will be promptly removed to reduce the attraction of ravens and other potential tortoise predators to the area.

B. STATE OF CALIFORNIA LISTED SPECIES

A number of species on the State of California's list of threatened and endangered species also have federal status and have been discussed in the section on federally listed species. These species include the American peregrine falcon, bald eagle, Yuma clapper rail, least Bell's vireo, Coachella Valley fringe-toed lizard, desert slender salamander, slender-horned spine-flower, Santa Ana woolystar, desert pupfish, and desert tortoise. The following species accounts outline life history, impacts, and mitigations for those plants and animals found solely on the state threatened and endangered species list that occur in the general vicinity of the proposed Eagle Mountain landfill project.

1. California Black Rail and "No Effect" Determination

California black rail (*Laterallus jamaicensis coturniculus*) is a State of California endangered species, a Category 1 candidate for federal listing, and a BLM sensitive species. This sparrow-sized, secretive bird lives in salt, brackish and freshwater marshes along the California coast, and in desert regions of southern California (CDFG 1989). This species has been reported from marshes in the lower Colorado River system and along the Coachella Canal (CDFG 1980). A recent survey by the U.S. Bureau of Reclamation (BOR 1989) reported the presence of black rails in Salt Creek north of the Eagle Mountain rail line, in habitat similar to that preferred by the Yuma clapper rail.

This species' endangered status is primarily the result of the significant loss of marsh habitat along the California coast. There is also concern about loss of marsh habitat along the lower Colorado River due to extreme fluctuations in water flow. In desert regions this rail appears to prefer marsh habitat dominated by bulrushes (*Scirpus* sp.) less than one meter tall (Garrett and Dunn 1981). Although little is known about rail food habits, it appears to prefer arthropods (CDFG 1989). The range-wide population status of this bird is not known, but is assumed to be declining because of continued loss of habitat. A survey by Jurek (1975) found 20 to 26 black rails inhabiting marsh vegetation along the Coachella canal.

No California black rails were observed during the survey. No habitat of appropriate size was found along the railroad corridor. Black rails are not known to travel very far from their breeding territories to forage or roost. Thus, no rails are expected to utilize the marsh vegetation along the railroad right-of-way. No impacts to black rails are expected from the reintroduction of rail traffic on the Eagle Mountain rail line.

2. Swainson's Hawk and "No Effect" Determination

Swainson's hawk (*Buteo swainsoni*) is a State of California threatened species and a federal Category 2 candidate species for listing. Swainson's hawks are very rare raptors throughout their range in California. Populations have been declining since the 1930s, and this decline may have been caused by pesticides, conversion of occupied habitat to irrigated intensive agriculture, and elimination of riparian woodland (Remsen 1979). Swainson's hawks occur in open grasslands, brushlands, and forested habitats. They utilize riparian forests for breeding sites and use open habitat nearby to forage for their primary food source, voles.

Most Swainson's hawk activity in California is confined to the Central Valley and to the northeast portion of the state, which comprises part of the Great Basin. The Swainson's hawk is observed occasionally in Imperial Valley and along the Colorado River during spring and fall migrations (Bernard and Brown 1977). This species may concentrate during migration in wildflower fields hunting for insects (Garrett and Dunn 1981). It has not been documented as a breeder in the vicinity of the project site (BOR 1989). This hawk may pass over the project location during periods of migration, but the proposed landfill site does not support breeding habitat or high quality foraging habitat. No Swainson's hawks were observed during the 1989 biological survey of the project property, and no impacts to this species are expected from project implementation.

3. Gila Woodpecker and "No Effect" Determination

The Gila woodpecker (*Melanerpes uropygialis*) is a State of California endangered species. This medium-sized woodpecker is a resident of California only in the riparian habitat of the lower Colorado River and very rarely in cottonwood trees of the Imperial Valley (Remsen 1979; Bernard and Brown 1977). This species is a cavity nester, primarily utilizing larger riparian-associated trees (e.g., cottonwoods) and saguaro cactus. Both of these habitats have been significantly reduced in California, thus leading to the bird's endangered status. Competition for existing tree cavities with the European starling (*Sturnus vulgaris*) has also reduced breeding success of the Gila woodpecker.

In 1984, approximately 200 individuals were observed along the lower Colorado River, with only 27 individuals documented to be breeding (CDFG 1989). No appropriate riparian habitat exists within the landfill project area for this species to utilize. No impacts are anticipated from project implementation.

4. Elf Owl and "No Effect" Determination

The elf owl (*Micrathene whitneyi*) is the smallest owl in North America, measuring five to six inches in length. This migratory species is only found in California during the breeding season, arriving in March and leaving in October (CDFG 1989). The diet of the elf owl is composed primarily of arthropods (e.g., insects, centipedes, and scorpions).

In California, the elf owl is an inhabitant of riparian woodlands along desert streams or springs. Tall cottonwoods and willows, with a shrub understory, appear to be necessary for this species (Garrett and Dunn 1981). Taller trees are needed for breeding. This owl is a cavity nester and uses old woodpecker holes extensively (CDFG 1989). In California, the elf owl is currently only known to occur along the lower Colorado River. Because of extensive clearing of riparian vegetation along the Colorado River for agriculture, the population has continued to decline. Current population estimates are that only 25 pairs remain in the state (CDFG 1989). Elf owls have been recorded in the recent past (i.e., 1970's) at Cottonwood Springs, in Joshua Tree National Monument, and at Corn Springs, in the Chuckwalla Mountains. However, the riparian habitat at these locations has been removed and the owls are no longer present (Garrett and Dunn 1981). No appropriate habitat of cottonwood/willow riparian habitat exists on the Eagle Mountain landfill project site. Therefore, no impacts to this species will occur from project implementation.

5. Willow Flycatcher and "No Effect" Determination

The willow flycatcher (*Empidonax traillii*) is a State of California endangered species. This small flycatcher is found primarily as a spring and fall migrant in the deserts of southern California, and is only rarely found breeding. This species breeds in riparian woodland, in willow thickets (Garrett and Dunn 1981). Due to loss of riparian habitat and increased brood parasitism from brown-headed cowbirds (*Molothrus ater*), the breeding population in southern California has declined drastically. However, no willow riparian habitat exists on the Eagle Mountain landfill project site, and no impacts to this species are anticipated from the project. Willow flycatchers were observed during winter in the Salt Creek estuary adjacent to the Salton Sea four to five years ago (Foreman, pers. comm. 1992).

6. Arizona Bell's Vireo and "No Effect" Determination

The Arizona Bell's vireo (*Vireo bellii arizonae*) is a subspecies of Bell's vireo currently found in California only along the lower Colorado River. Like its close relative the least Bell's vireo, discussed previously, this insectivorous bird inhabits willow-dominated riparian habitat. It is also found in mesquite (*Prosopis glanulosa*) thickets along desert stream courses (CDFG 1989). Loss of riparian habitat and brood parasitism by cowbirds are the major causes of this bird's population decline. In 1981, along the Colorado River, 35 singing males were estimated to be present. However, in 1986 only four singing males were observed (CDFG 1989). No appropriate habitat for the Arizona Bell's vireo occurs on or in the vicinity of the Eagle Mountain landfill project site, and no impacts to this species are anticipated.

C. CANDIDATE SPECIES FOR FEDERAL LISTING

For purposes of providing information to the USFWS and because of the large number of candidate species occurring in the vicinity of the proposed project, this section has been added to address potential impacts to federal candidate species. Although candidate species have no protection under the federal Endangered Species Act, some of the candidate species occurring in the vicinity of the proposed project could be reviewed for possible listing as endangered during the 115-year life of the project. Future listing of any of the candidate species listed below, before the project is complete, would result in reinitiation of the Section 7 consultation process.

The species discussed below are considered potential species for federal listing as threatened or endangered by the USFWS. The USFWS maintains a set of candidate categories that reflect the level of information and the current stage of processing for each species. A Category 1 candidate species designation is given to species that have sufficient information to be classified as threatened or endangered, but no current action has been taken to formally initiate the process. The federal Category 2 candidate designation refers to species that lack sufficient scientific information to warrant listing as endangered at this time. As more information becomes available, the species may be upgraded or downgraded in the classification scheme.

1. Wildlife

a. California Leaf-nosed Bat. California leaf-nosed bat *(Macrotus californicus)* is federal Category 2 candidate species. This species is found in southern Nevada and California, western Arizona, Baja California, and Sonora, Mexico. In California, it is locally common near water sources (Brown 1980) in mountain ranges along the Colorado River from Needles to the Mexican border. Although once present in the coastal basins of California, it has disappeared from most of these areas because of loss of habitat and human disturbance. Most desert specimens have been taken from mine tunnels in desert scrub habitat below 2,000 feet in elevation. These mine tunnels and caves are usually warmer than 80 degrees Fahrenheit and greater than 60 percent humidity with high ceilings (Brown, pers. comm. 1990). Brown states that most of the winter population of California leaf-nosed bats in the California desert are located in approximately 10 mine adit sites.

California leaf-nosed bat colonies are sensitive to disturbances and may abandon a roosting site if disturbed. This can be especially critical for wintering sites, as suitable winter roosts are scarce (Williams 1986).

The California leaf-nosed bat was observed during directed surveys of the Eagle Mountain Mine area (see Figure 13; and Attachment 1). A diurnal roosting site for the leaf-nosed bat was found in the mine adit west of the east pit during a spring survey (May 1990). Approximately 60 bats were observed 1,300 meters inside the mine tunnel. Pregnant female bats were captured in the night roosts, indicating that the diurnal roosting site may also be a maternity roost. Night roosts for this species were also found at three additional sites (see Figure 13). A second survey in December, 1990, indicated that the mine adit also serves as a winter roost and is a significant resource for the leaf-nosed bat. No other winter roost sites were found in the vicinity of the Eagle Mountain Mine (see Attachment 1). Approximately 100 bats were observed at this winter roost site, approximately 250 meters inside the mine. In the winter of 1991 only 60 bats were found roosting in the adit. Unlike many other bats, this species does not hibernate. A complete description of the surveys, including methodology and results, are found in Attachment 1. Water supplies in the project site are an important limiting resource for many species of bats. No bat roosts were found on public (selected) lands at the Eagle Mountain landfill site.

Significant impacts would occur to the California leaf-nosed bat at the Eagle Mountain landfill site. This species roosts in the large adit in an area that would be filled in approximately 35 years. The loss of this roost would be significant. The loss of the pond at the bottom of the east pit will not significantly affect this species since the townsite reservoir will continue to provide water. No significant impacts to bats are expected on public (selected) lands.

As mitigation, the California leaf-nosed bat population at the adit and in the surrounding area will be monitored before landfill operations begin. Monitoring will continue after operations begin, but before activity reaches the adit. To accommodate bat utilization of the mine adit, the mouth of the adit will be extended upward and/or outward using appropriate conduit material to maintain an eight-foot diameter opening, the current adit dimension, above any landfill deposits, including the level of the final landfill contour. Since the roosting bats are between 250 and 1300 meters inside the mine tunnel, and the bats are primarily active at times when trash disposal activities have ceased, these bats should not be significantly disturbed (Brown, pers. comm. 1990, see Attachment 1). The conduit material that will be used for the adit extension will be relatively impermeable to landfill leachate and gas. If necessary, additional impermeable liners will be employed to assure there is no gas or leachate leakage into the adit extension. The adit entrance should also be gated to allow free exit and entrance of bats, but prevent human intrusion. Monitoring of the bat population will continue throughout the life of the landfill operation.

b. Townsend's Big-eared Bat. Townsend's big-eared bat *(Plecotus townsendii)* is a federal Category 2 candidate species. This species is found throughout California, but has been declining in numbers over the past 40 years (Williams 1986). This bat occurs throughout the California deserts from sea level to 8,000 feet (Brown, pers. comm. 1990). The subspecies found in the southern California deserts is *P. t. pallescens*.

> Townsend's big-eared bat is basically a cave-roosting species that has moved into man-made caves such as mines and buildings. Unlike many other bats, they are unable to crawl into crevices, and usually roost in exposed areas where they are vulnerable to disturbance. *Plecotus* is quite sensitive to human disturbance, and this appears to be the primary cause of population decline for this species. This bat is colonial during the maternity season, when compact clusters of up to 200 individuals might be found. Maternity roosts form in the spring and remain intact during the summer. Great fidelity exists for a roost site, and if undisturbed, the bats will use the same roost for many generations. In the winter, *Plecotus* hibernate in cool caves and mine tunnels. Hibernation is a critical time for the species, since disturbance which causes arousal may expend energy reserves needed to survive the winter. The hibernation period in the California desert will vary with ambient temperature, but is generally from late November through early March (Brown, pers. comm. 1990; and Attachment 1).

Sign of Townsend's big-eared bat was found in the Eagle Mountain Mine adit during the May, 1990 survey (see Attachment 1). The bat droppings observed near the entrance to the adit were in a typical formation signifying evidence of a maternity roost. However, the droppings were at least one-year old. No individuals were observed during the May or December, 1990 surveys, and no sign was found in subsequent surveys (see Attachment 1).

If Townsend's big-eared bat still utilizes the main adit at Eagle Mountain Mine, the loss of this roost site would be a significant impact. Its sensitivity to disturbance may be the reason that no specimens were found during the surveys. This species may no longer be on the proposed project site. As described under mitigation for impacts to the California leaf-nosed bat, the adit opening will be maintained throughout the life of the landfill project. Whether the human activity in the vicinity will preclude use of the mine by this species is uncertain. Monitoring of local bat populations will continue during landfill operations.

c. California Mastiff Bat. The California mastiff bat *(Eumops perotis californicus)* is a federal Category 2 candidate species. This bat occurs from central California southward to central Mexico, and has been recorded from the western portions of the southeastern desert region of California (Williams 1986). The nearest known location for this species is near Mecca in Riverside County, approximately 40 miles from the Eagle Mountain landfill site. California mastiff bats form day roosts in large cracks of exfoliating granite. Cracks are approximately 2 inches wide and 12 inches deep, and narrow to at least one inch at their upper end. The crack must be at least six to nine feet from the ground for bats to launch into flight. The bats have also adapted to using man-made structures, providing they have characteristics similar to those natural roosts described previously. This species has declined in numbers, as have other bats in California. This decline may be the result of habitat loss due to urbanization and agriculture and possibly pesticide poisoning (Williams 1986).

No evidence of California mastiff bat was found on the proposed Eagle Mountain project site (see Attachment 1). Most location records of this species occur north and west of the Eagle Mountain region. This species appears to prefer rocky crevices for roosting and not caves or adits. Therefore, any disturbance to the Eagle Mountain Mine adit is not likely to impact this species. No impacts are anticipated from project implementation.

d. Spotted Bat. The spotted bat (*Euderma maculatum*) is a federal Category 2 candidate species for inclusion on the endangered species list. This bat occurs primarily in the southwestern United States and northern Mexico, with scattered records as far north as Montana and British Columbia. They will roost in caves and buildings, but tend to be found most often living in crevices in rocky cliffs and canyons (Whitaker 1980). The spotted bat prefers arid habitats and is usually observed singly. Little else is known about this species. Surveys of mine tunnels on the Eagle Mountain landfill project site, and in the general vicinity, showed no evidence of spotted bat activity. Likewise, mist-netting at water sources and the use of a sonar detection device did not detect this bat species. No project-related impacts to this species are expected.

e. Arizona Myotis. The Arizona myotis (*Myotis lucifugus occultus*) occurs from southeastern California through Arizona and into western New Mexico. This bat is also found in northern Mexico. In California, it is only found along the Colorado River lowlands and in the adjacent desert mountain ranges (Williams 1986).

This bat species has declined in numbers throughout many parts of its range, at least in part due to pesticides, control measures in nursery colonies, collection by researchers, and disturbance of hibernating individuals (Fenton and Barclay 1980). The Arizona myotis is known only from the low desert along the Colorado River in California. However, in other parts of its range, it is associated with pine forests at elevations of 6,000 to 9,000 feet (Williams 1986). This bat probably uses hollow trees and protected rock crevices for roosting, but is also known to use man-made structures such as bridges and buildings (Williams 1986). No record of this species exists for the Eagle Mountains, and no evidence for its presence was found during the spring and winter bat surveys of the project area. No impacts to this bat species are anticipated from project implementation.

f. Arizona Cave Myotis. The Arizona cave myotis (*Myotis velifer velifer*) is a federal Category 2 candidate for federal listing. This bat's distribution includes southeastern California eastward to western New Mexico, and south to Guatemala. Like the Arizona myotis, the Arizona cave myotis is found only along the Colorado River lowlands and adjacent desert mountain ranges in California (Williams 1986). It is speculated that loss of riparian foraging habitat and human disturbance of roosting colonies have been the principal causes for the population decline of this species.

This bat species is highly colonial and roosts, often in large groups, in caves and mine tunnels. Primary-known roost sites in California are in the Riverside mountains of eastern Riverside County, adjacent to the Colorado River (Williams 1986). This bat was not detected on the Eagle Mountain landfill project site and is not expected to be impacted by project implementation.

g. Yuma Mountain Lion. The Yuma mountain lion (*Felis concolor browni*) is a federal Category 2 candidate for inclusion on the endangered species list. The distribution of this large cat is not well defined. Historical records show that this species occurred in the lower elevations of the Colorado River Valley of California and Arizona and into northern Mexico (Williams 1986). In California, its range may have extended into the Imperial Valley to the west and as far north as the Amargosa Mountains. Grinnell (1933) recorded an occurrence at Calexico, in the Imperial Valley.

Little is known about this secretive animal. No information is available on its current population status. Exact habitat requirements are also unknown. Grinnell (1933) stated that the Yuma mountain lion lived mostly in the dense vegetation of the bottomland along the Colorado River and in adjacent rocky uplands. The principal prey species of this lion may be the burro deer (*Odocoileus hemionus eremicus*), also a resident of the bottomland vegetation along the Colorado River (Williams 1986).

There is a possibility that the Yuma mountain lion occurs on the Eagle Mountain landfill site, although no physical evidence of its presence was found during the biological surveys of the area. However, it is likely that the project site is too far from the preferred riparian vegetation of the Colorado River to support this cat. No appropriate riparian habitat exists on the project site. Potential prey species, such as mule deer and bighorn sheep, are present on the project property however. No significant impacts to the Yuma mountain lion are expected from implementation of the landfill project. If lions are on the site, they should be able to avoid the effects of habitat disturbance from the project, as there is an abundance of rocky scrub habitat in the adjacent Eagle Mountains.

h. Flat-tailed Horned Lizard. The flat-tailed horned lizard (*Phrynosoma mcallii*) is a USFWS Category 1 candidate for listing as threatened or endangered and a CDFG candidate for endangered status. This lizard species occurs in desert areas of Riverside, San Diego, and Imperial counties in California, in southwestern Arizona, and in adjoining portions of Sonora and Baja California, Mexico (Turner et al. 1980).

This species inhabits areas of flat topography with sandy soils. Fine windblown soils or more stabilized dunes appeared to be preferred by this species (Turner et al. 1980). They are generally associated with creosote bush/bur-sage vegetation communities (Stebbins 1985). This species does not occur in dense vegetation. These horned lizards are also restricted to areas occupied by harvester ants (e.g., *Veromessor pergandei*, *Pogonomyrmex californicus*, and *P. magnacantha*), their primary food source (Turner et al. 1980).

Two sightings of unidentified horned lizard scat were made along the Eagle Mountain railroad right-of-way approximately 1.5 miles south of I-10 (see Figure 15c). In general, habitat along the railroad corridor would not support flat-tailed horned lizard because of the lack of windblown sands. Because of the paucity of appropriate habitat within the Eagle Mountain landfill area, and concomitant low flat-tailed horned lizard population density, no significant impacts to this species are expected from the landfill project.

i. Colorado Desert Fringe-toed Lizard. The Colorado desert fringe-toed lizard (*Uma notata notata*) is a federal Category 2 candidate species for listing. This fringe-toed lizard subspecies occurs only in the deserts of southeastern California, near the Salton Sea and Imperial Sand Hills (Stebbins 1985), and in northern Baja California, Mexico. This lizard is highly adapted to living in sand dunes and other areas with deposits of fine windblown sand (e.g., desert flats, riverbanks, and washes) (Stebbins 1985). Little or no habitat of this sort occurs on the Eagle Mountain landfill project area. No Colorado desert fringe-toed lizards or their sign were found during the field surveys of the project site, and none are anticipated to occur there. No impacts to this species are expected as a result of landfill operations.

j. Western Snowy Plover. The western snowy plover *(Charadrius alexandrinus*) is a federal Category 2 candidate for federal listing. This bird is primarily a summer resident in the desert of southeastern California. It is known to nest at the Salton Sea and may colonize sinks, playas, and receding lakeshores in other portions of the desert (Garrett and Dunn 1981). Nesting habitat consists of gravelly beaches, salt pans, and alkali flats (BOR 1989). Although the Eagle Mountain railroad right-of-way may pass through some potential plover habitat (i.e., alkali sink) near Ferrum Junction, train activity is not expected to have a significant impact upon this species. Any potential impacts would be indirect, from noise generated by passing train traffic.

k. Mountain Plover. The mountain plover (*Charadrius montanus*) is a federal Category 2 candidate for inclusion on the endangered species list. This bird is a common winter resident (mid-October to mid-February) of grasslands and agricultural areas in portions of the southern California desert and the San Joaquin Valley. In desert regions without grassland and agricultural, the mountain plover is a rare fall transient (Garrett and Dunn 1981). No grassland or agricultural habitat exists on, or in the immediate vicinity of, the proposed Eagle Mountain landfill project. This species is not expected to occur on the project site, and no observations of this species were made during the winter biological surveys made of the landfill project area. No impacts to this species are anticipated.

l. Tricolored Blackbird. The tricolored blackbird *(Agelaius tricolor*) is a federal Category 2 candidate species for inclusion on the endangered species list. This species is found primarily from southern Oregon, south through the western half of California, and into northern Baja California, Mexico. This species is colonial and nests in various sized colonies in cattail and tule marshes. This blackbird leaves the marshy habitats to forage in agricultural fields and grasslands. The Salton Sea National Wildlife Refuge regards the tricolored blackbird as accidental in its occurrence in the area (BOR 1989). The tricolored blackbird could possibly be found in the freshwater marsh habitat of Salt Creek, in the vicinity of the Eagle Mountain railroad right-of-way. However, no records of occurrence are known from this area, and no tricolored blackbirds were observed during the biological field surveys of the project area. No impacts to this species are anticipated from project implementation.

m. Eagle Mountain Scrub Jay. The Eagle Mountain scrub jay (*Aphelocoma coerulescens cana*) is a subspecies of scrub jay known to occur only in the pinyon/juniper woodland habitat on the upper elevations of Eagle Mountain, in Joshua Tree National Monument (Peterson 1990). This bird is believed to have originated by hybridization between coastal and interior jay populations (Peterson 1990). The population is estimated at only 40 to 50 birds confined primarily to 150 hectares of pinyon/juniper woodland near the peak of Eagle Mountain (Peterson 1990; Hays, pers. comm. 1991). This subspecies is a federal Category 2 candidate species. Eagle Mountain is located approximately 18 miles from the landfill site. No scrub jays were observed on the project site during any of the biological surveys.

A potential exists for a landfill-caused increase in the regional raven population to impact the Eagle Mountain scrub jay. Ravens may prey upon the eggs and young of scrub jays (Hays, pers. comm. 1991). Impacts to the jay from increased raven depredation would be considered significant. The proposed raven monitoring and control program discussed under desert tortoise mitigation would reduce any potential impacts to scrub jays from the Eagle Mountain landfill project to a level below significance.

2. Plants

a. Alverson's Foxtail Cactus. Alverson's foxtail cactus (*Coryphantha vivipara* var. *alversonii*) is a federal Category 2 candidate species and a BLM sensitive species. This small cactus occurs on stony slopes at elevations between 2,000 and 5,000 feet in the transition zone between the Mojave and Colorado deserts in Riverside County and near Bard, Imperial County. A population also occurs at Pagumpa, in extreme northwestern Arizona. This cactus grows in clumps ranging from a single head to as many as 40 heads.

Alverson's foxtail cactus was observed frequently in areas of Eagle Mountain Mine. Large populations of this foxtail cactus occur in the southwest portion of the mine along Eagle Creek (mostly in the washes north of the mining road where about 200 individuals were observed), and in the southeast portion of the mine from near the landing strip to north of Kaiser Road, and west of Eagle Mountain Road (about 80 individuals observed) (Figure 19). A few scattered individuals of Alverson's foxtail cactus occur within the 200-foot survey corridor of the railroad and Eagle Mountain Road (see Figures 19 and 15b). The sightings were of individuals or small groups (less than 10 plants). None were observed along the railroad south of I-10. No large concentrations or populations of this species occur within the survey corridor.

1) Project Impacts. Two main concentrations of Alverson's foxtail cactus occur at the proposed landfill site. One concentration occurs in the southern portion of the proposed storage area (165 acres; at least 80

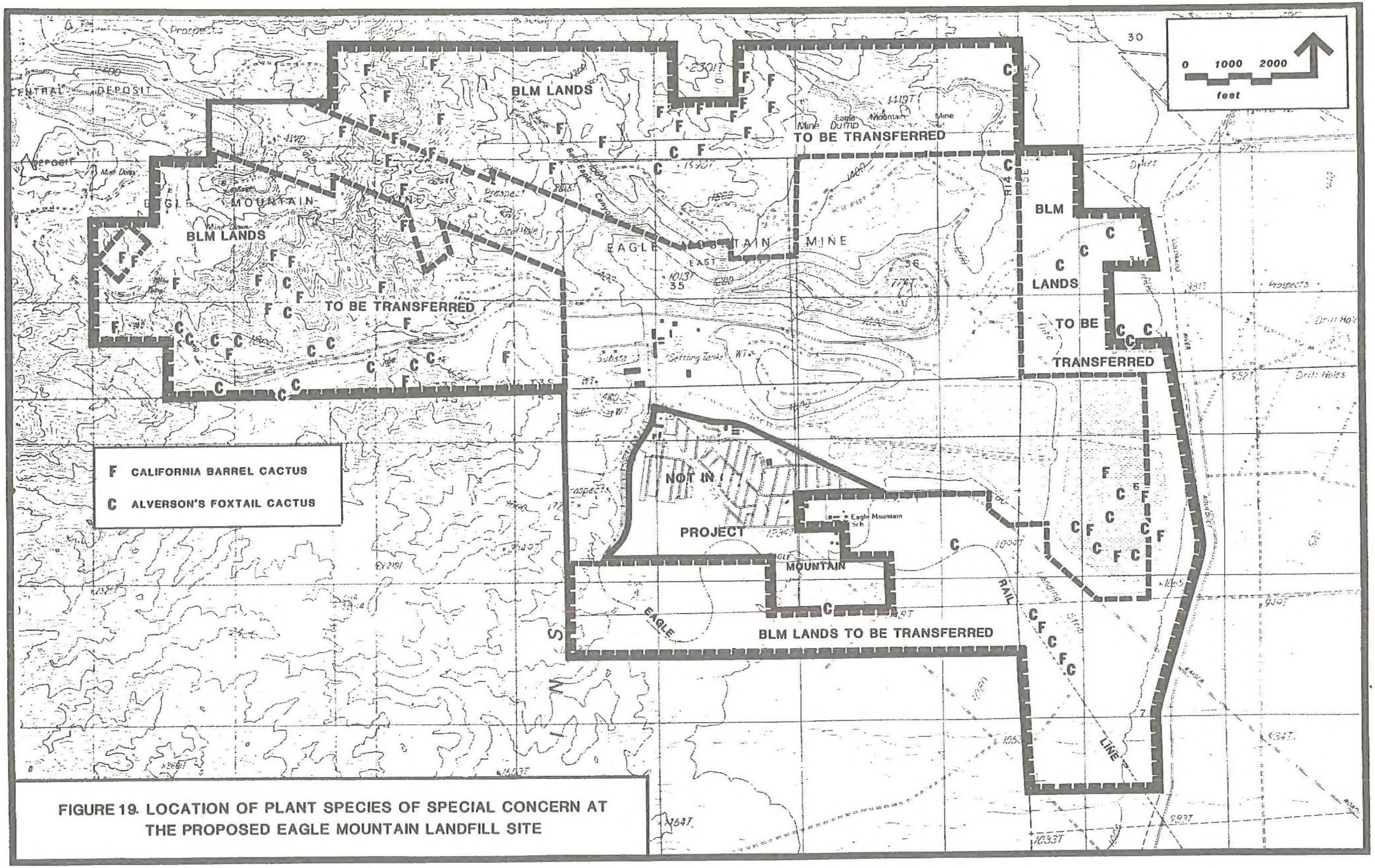

FIGURE 19. LOCATION OF PLANT SPECIES OF SPECIAL CONCERN AT THE PROPOSED EAGLE MOUNTAIN LANDFILL SITE

plants), and one concentration occurs along the southwestern perimeter of the landfill footprint in the Eagle Creek Wash on the north side of the mine road (125 acres; at least 200 plants). The 125 acres of Alverson's foxtail cactus habitat within Eagle Creek Wash will be impacted by the landfill. In addition, approximately 33.3 acres of habitat for this species would be impacted by the proposed Eagle Mountain Road extension and railroad spur, of which 7.6 acres would be located in Planning Area 4 of the Specific Plan. These impacts are considered significant.

Efforts to reduce the magnitude of the impacts to the Alverson's foxtail cactus population at the proposed landfill site involve the preservation of a portion of the Alverson's foxtail cactus population and its habitat on the proposed landfill site in open space with a conservation easement (Figure 20). Approximately 157.4 acres of Alverson's foxtail cactus habitat in planning area 4 in the SP storage area will be preserved. Much of this conservation easement is on public (selected) lands.

Although the local population of Alverson's foxtail cactus at the proposed landfill site will be significantly affected, this loss would not have significant negative effects on the overall distribution of the species. The majority of the main distribution of Alverson's foxtail cactus is already protected on government lands (Blymyer, pers. comm. 1990), such as Joshua Tree National Monument.

Losses of individual Alverson's foxtail cactus along the railroad would be minimal and not significant, however, these small losses would contribute to the cumulative loss of this species over the entire project.

2) Mitigation/Compensation. Impacts to Alverson's foxtail cactus and its habitat shall be mitigated by initiating a transplant program that will be conducted on suitable areas within the project boundary. This program shall be funded by the project proponent as a sponsored research program that will provide needed information on the rehabilitation of desert habitat using cactus transplants. The transplant program will involve the following steps:

a) Transplant trials shall be conducted on the following areas within the proposed landfill site to determine which areas are most suitable for the establishment of Alverson's foxtail cactus:

   1) Areas of Eagle Creek south of the mining road in locations where minor disturbance has occurred. This site is a portion of Special Planning Area 6 of the Eagle Mountain Landfill Specific Plan.

   2) Locations in lowlands adjacent to drainages on the northwest portion of Special Planning Area 6 where minor disturbances have occurred.

   3) Locations near the foothills of the Eagle Mountains on the upper Bajada area on the northeast portion of Special Planning Area 6.

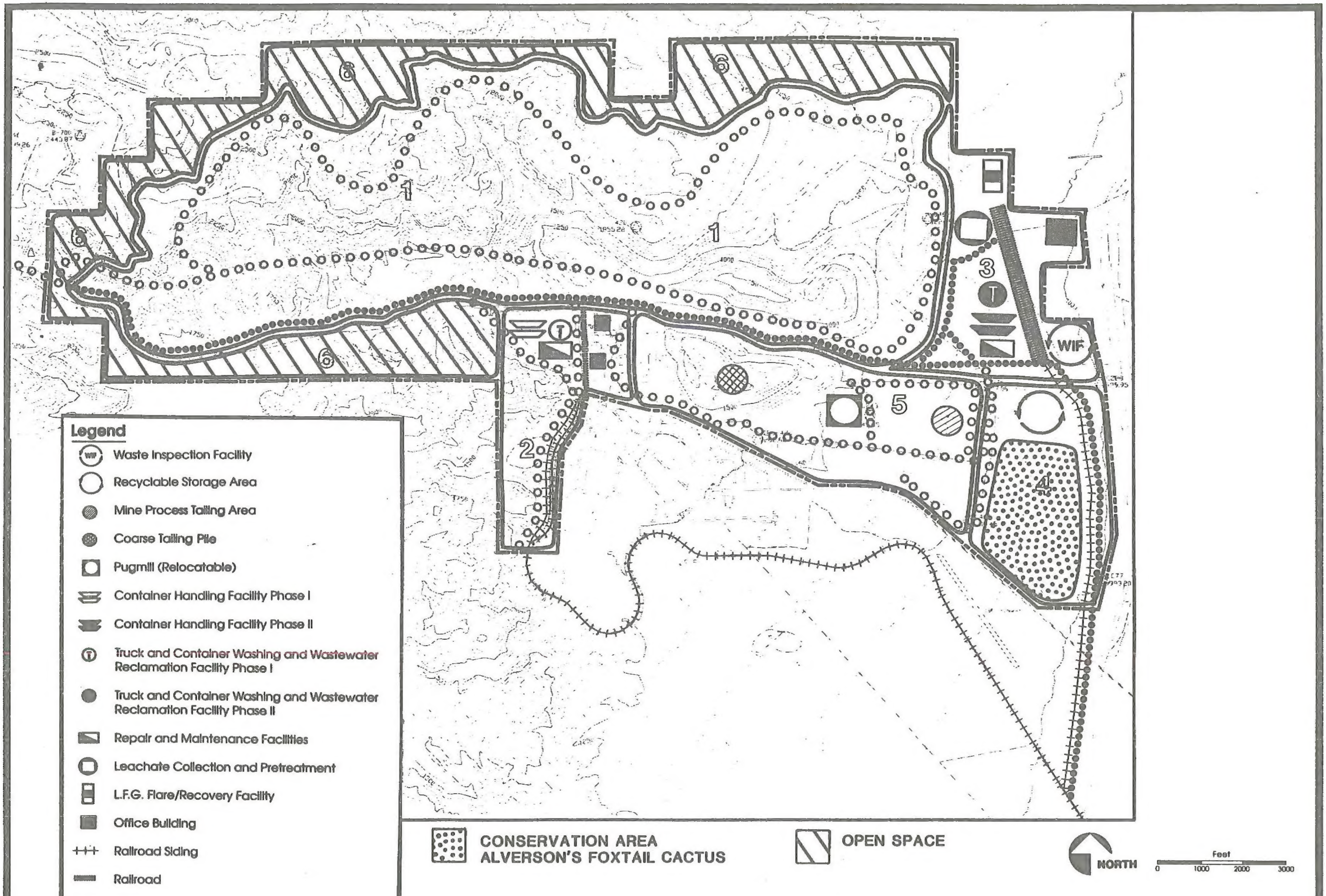
6
6
6
6
1
1
2
3
4
5
WIF
Legend
Waste Inspection Facility
Recyclable Storage Area
Mine Process Tailing Area
Coarse Tailing Pile
Pugmill (Relocatable)
Container Handling Facility Phase I
Container Handling Facility Phase II
Truck and Container Washing and Wastewater Reclamation Facility Phase I
Truck and Container Washing and Wastewater Reclamation Facility Phase II
Repair and Maintenance Facilities
Leachate Collection and Pretreatment
L.F.G. Flare/Recovery Facility
Office Building
Railroad Siding
Railroad
Unpaved Roads
Paved Roads
CONSERVATION AREA
ALVERSON'S FOXTAIL CACTUS
OPEN SPACE
NORTH
Feet
0
1000
2000
3000

FIGURE 20. PROPOSED OPEN SPACE AND CONSERVATION AREAS ON THE EAGLE MOUNTAIN LANDFILL PROJECT SITE

RECON

4) Locations within Special Planning Area 4 where minor disturbances have occurred.

b) Prior to any transplants being taken from their original habitat the density of the population (number plants/acre) shall be estimated. Estimates of density can be made by counting the number of Alverson's foxtail cactus observed in quadrats along transects across the population. The resulting density figure will be used in the second stage of the transplant program. Also, microhabitat and soils analyses will be conducted at current population sites and potential transplant sites to assess compatibility.

c) The initial transplant trials shall utilize 10 to 15 percent of the Alverson's foxtail cactus population to be impacted by the proposed landfill in Eagle Creek to the north of the mining road. A proportion of the salvaged individuals will be transplanted to each trial habitat area.

d) The transplanted Alverson's foxtail cactus used for the initial trials shall be monitored once a month for one growing season (including a summer). After the trial period is complete, the location(s) having the greatest survivorship will become the site(s) for the completion of the transplant program.

e) Transplanting of Alverson's foxtail cactus, either for the initial planting trials or for the main transplanting effort, shall occur at the most appropriate time of year (fall) to take advantage of the rainy season and to increase survivorship of the transplanted material.

f) Sites selected for the main transplant effort shall be planted with the remaining individuals of Alverson's foxtail cactus salvaged from the impact areas of the proposed landfill project at a density similar to that estimated for the natural population (see "b" above).

g) The final mitigation areas shall be monitored once a month for one growing season (including a summer) to measure survivorship of the cacti and determine the degree of success of the transplant program.

h) A final report summarizing the results of the transplant program shall be prepared by the project proponent and submitted to BLM, CDFG, and USFWS.

b. Orocopia sage. Orocopia sage (*Salvia greatai*) is a Category 2 candidate species and a BLM sensitive species. This sage shrub has distinct spinose margined leaves and grows along dry washes and alluvial fans below 600 feet elevation from the Orocopia Mountains to the Chocolate Mountains in

Riverside County. The species has known historic occurrences in the vicinity of the Eagle Mountain rail line. These locations were verified during the current surveys as several populations of this species were observed along the southern portion of the railway (see Figures 14a and 14b). A significant population of Orocopia sage occurs in the vicinity of the Eagle mountain rail line from just northeast of the trestle crossing over Salt Creek, south to the area adjacent to the levee north of the Coachella Canal. Another rather large population of Orocopia sage occurs on the parcels covering sections 31, 35, and 36 of the Red Canyon 7.5-minute U.S.G.S. quadrangle (see Figure 14a). No individuals sage shrubs were observed within the boundaries of the survey in the proposed Eagle Mountain landfill area, Eagle Mountain Road extension, or railway north of I-10.

1) Project Impacts. Orocopia sage has the potential for significant impacts along the Eagle Mountain railroad right-of-way because the shrubs are concentrated in a small area. Large impacts are not expected to occur to this species since rehabilitation and maintenance activities along the railroad will not involve large disturbances. The potential for the loss of a few individuals growing immediately next to the railroad tracks and access road can probably be avoided. Unavoidable impacts to this species at this level of disturbance would not be considered a significant impact.

2) Mitigation/Compensation. Mitigation measures for potential impacts to Orocopia sage will include avoidance of these plants by narrowing the disturbance corridor near the population to as small an area as possible. Prior to construction activities in the vicinity of the Orocopia sage populations, an on-site meeting between the construction supervisor and a qualified biologist shall take place to delineate specific areas to avoid and areas where unavoidable impacts can be minimized. This may include flagging individual shrubs for avoidance. Maintenance and construction staging areas will avoid areas containing Orocopia sage populations. Roads should be kept to their current width. Measures should be undertaken to alert employees to avoid off-road travel and other habitat disturbance activities in the areas where this sage is present.

c. California ditaxis. California ditaxis (*Ditaxis californica*) is a Category 2 candidate species and a BLM sensitive species. It is a small perennial plant that has known historic occurrences in the area of Eagle Mountain Road and the Eagle Mountain rail line. No individuals of this species were observed within areas surveyed for the proposed action.

California ditaxis is a species distinguished from the other species of the genus *Ditaxis* primarily by the lack of pubescence on the foliage (Munz 1974). It has a dual blooming period (March through May and October through December) and the species would have been identifiable during the survey period conducted for this project. Two other species of *Ditaxis* (*D. serrata* and *D. neomexicana*) were observed along the railway and Eagle Mountain Road to the south of the mine, and although there are historic occurrences of California ditaxis documented in the vicinity of the Eagle Mountains, it is not anticipated (based on the results of the field surveys) that these populations lie within the proposed project area (Eagle Mountain Mine site, Eagle Mountain Road corridor, or the Eagle Mountain railway corridor). Therefore, no significant impacts to this species are anticipated from the proposed action.

d. Orcutt aster. Orcutt aster (*Xylorhiza orcuttii*) is a federal Category 2 candidate and a BLM sensitive species. It is a perennial subshrub with showy purple flowers with yellow centers. This species prefers the gypsum soils found in the desert region. It has known historic occurrences in canyons on the southwest side of the Salton Sink, especially west of Imperial County. This distribution is well south of the project area and the lack of gypsum soils in the study area makes the potential for occurrence of this species within the bounds of the entire project extremely low. Therefore, no impacts to this species are anticipated from the proposed action.

e. Munz cholla. Munz cholla (*Opuntia munzii*) is a federal Category 2 candidate and a BLM sensitive species. It is a large, treelike cholla known to occur in dry gravelly places from the Chocolate Mountains, south of the Chuckwalla Bench to areas of eastern Imperial County. This distribution is well south of the study area. This cholla is easily identified by its stature alone and this species would have been observed if within the study area; therefore, the potential for occurrence within the entire study area is extremely low. No impacts to this species are anticipated from the proposed action.

D. STATE OF CALIFORNIA FULLY PROTECTED SPECIES

Nelson's Bighorn Sheep

Nelson's bighorn sheep (*Ovis canadensis nelsoni*) is a State of California fully protected species and a BLM sensitive species. Its current distribution extends from southern Colorado, Nevada, and Utah south to California, Arizona, New Mexico, Texas, and Mexico. In California, Nelson's bighorn sheep occur from the White Mountains on the north to the Mexican border and east to the Colorado River (Monson 1980). Monson (1980) stated that approximately 150 bighorn occurred in Joshua Tree National Monument and vicinity (Mulcahy, pers. comm. 1991). Bighorn sheep prefer rough, rocky, and steep terrain. They depend upon their climbing and hiding ability in this rough terrain to escape predators.

Bighorn sheep foraging areas consist of summer, fall-winter, and spring range. Summer range provides permanent water sources, fall-winter range is usually similar to the summer range, and spring range includes rugged terrain for lambing (McQuivey 1978). Optimal foraging distance is one mile or less from watering sources (Hansen 1980). The maximum foraging range must be within six miles of watering sources (Hansen 1980). Plant productivity in the desert depends on the amount and timing of rainfall. Rainfall patterns differ considerably between and among months and years and, in the area of the project site, are concentrated in the winter. The relationship of plant productivity and rainfall makes the availability of sheep forage unpredictable. In addition, a wide range of habitats is needed to support bighorn sheep because many plant species are productive only during certain rainfall patterns. Thus, bighorn must be able to move to good foraging areas between seasons.

Blong and Pollard (1968) found Peninsular bighorn sheep in the Santa Rosa Mountains requiring water sources daily during the heat of the summer. Ewes, lambs, and young rams stayed within two miles of water during the summer, while rams were observed traveling over three miles from water sources and returning to water less frequently (Blong and Pollard 1968).

Bighorn sheep move between mountain ranges. Although the reasons for this intermountain movement are unknown, corridors have been documented for sheep in the California desert area by the BLM and CDFG (Bleich et al. 1990). A summary of intermountain movements by mountain sheep (Schwartz, Bleich, and Holl 1986) and observations during sheep transplant programs indicate that bighorn sheep can travel long distances. For example, during a release program by BLM and Nevada Department of Wildlife, one radio-collared ram was observed to travel 100 miles (Armentrout, pers. comm. 1990). Schwartz, Bleich, and Holl (1986) suggest that because of these movements, bighorn sheep may consist of "meta-populations" with subpopulations occurring in each mountain range. These migrations increase the potential for genetic variability within the "meta-population." They further conclude that these subpopulations would vary in numbers and genetic structure as habitat changes within a mountain range, creating a variable population structure through time. Bighorn sheep also appear to require large amounts of space because they become "nervous" and "run-down" in crowded conditions (Hansen 1980).

Populations of Nelson's bighorn sheep occur in the Eagle (50), Orocopia (80), Chuckwalla (25), and Chocolate mountains (160) in the broad vicinity of the proposed landfill site and the Eagle Mountain railroad right-of-way (Weaver 1989). Habitat management plans have been developed for bighorn sheep in the Orocopia and Chuckwalla mountain ranges (see Figure 3). The ability of bighorn sheep to move between mountain ranges in search of seasonal forage and water is critical for sheep survival (Woodward-Clyde n.d.). Movement patterns are affected by forage and water availability, topography, climatic conditions, breeding activity, and sex of individuals (McQuivey 1978). Sheep corridors may exist between the Eagle and Coxcomb mountain ranges (Weaver, pers. comm. 1990). Although the Eagle Mountain population appears stable, the Coxcomb subpopulation appears to be declining (Weaver, pers. comm. 1990).

Results of an aerial survey of the Eagle Mountains conducted by CDFG (U.S. Department of the Interior 1986) showed approximately 50 bighorn sheep in residence. Their report also indicated seven watering hole locations in the Eagle Mountains. A second survey by the BLM in 1990 showed 19 sheep in the immediate vicinity of the proposed Eagle Mountain landfill site, and also estimated a total of approximately 50 sheep in the Eagle Mountains.

Bighorn sheep sign was observed on all roads, ravines, and ridgetops within the Eagle Mountain landfill project boundaries (see Figure 13). Bighorn sheep extensively use habitat on both the private and public (selected) lands on the proposed landfill site. One potential bedding area was observed in the northeast portion of the site. Local residents regularly observe up to 20 individual sheep drinking from the leaky water tanks west of the camp (Anderson, pers. comm. 1989). Sheep are also observed wandering through the tailing areas of the mining operations. Mine operators report that sightings of bighorn sheep near mine operations and roads in the past were common. Sheep would stand by the sides of the road and watch machinery pass (Anderson, pers. comm. 1989).

Evidence from mining personnel (Anderson, pers. comm. 1989) suggests that bighorn sheep may habituate somewhat to mining operations. Studies have shown that sheep will become habituated to construction activities as long as they can see the disturbance and the disturbance does not appear to the sheep to be threatening (Campbell and Remington 1981; Leslie and Douglas 1980). Sheep habituated to the large machinery and activities associated with earlier mining operations and they did not avoid the area. Although bighorn sheep may habituate to human activity, this process may cause stress to the sheep, which could directly or indirectly affect their health and survival.

Locations of evidence for bighorn sheep utilizing the habitat along the railroad right-of-way are shown in Figures 14a-e. Probable bighorn sheep scat and tracks were observed south of I-10, as far south as the Coachella Canal and in the parcels owned by Kaiser to be offered in trade to the BLM in Salt Creek. One ewe was observed within the 200-foot railroad corridor in badlands in the Salt Creek wash.

1. Project Impacts

An impact to the bighorn sheep population in the Eagle Mountains is the removal of one permanent water source (the pond at the bottom of the East Pit), the potential loss of two other permanent water sources (the two leaking water tanks on the south-central portion of the property), and the loss of one temporary water source (at the northeast corner of the mine) within the project boundary. All of these water sources are on private lands. The CDFG (U.S. Department of the Interior 1986) found only seven watering sources for bighorn sheep in the Eagle Mountains, thus making the loss of any watering source a severe reduction. Sheep range is limited by the lack of accessible water sources during the dry summer months.

Additional impacts to bighorn sheep will occur with the loss of approximately 994 acres of previously undisturbed natural land, which is appropriate habitat for sheep. Most of this habitat is on public (selected) lands. This habitat is considered prime sheep range (Weaver, pers. comm. 1990; Armentrout, pers. comm. 1990). Loss of habitat, along with waterhole removal, would force the population of sheep to utilize a smaller area, thus creating more stressful conditions and potentially impacting the health of the sheep. Stress predisposes sheep to diseases, and the loss of habitat restricts sheep to smaller areas, thus leading to a greater probability of spreading disease. A few sheep bedding areas on public (selected) lands will be impacted because they are located within the perimeter of the landfill.

Indirect impacts to bighorn sheep may occur if the landfill operation causes sheep to alter their use patterns in the habitat surrounding the landfill. Bighorn are known to respond to the presence of humans and vehicles with an increased heart rate due to stress. However, unless there is a direct threat to the sheep, heart rate usually quickly returns to normal, indicating habituation (MacArthur et al. 1979). Sheep accustomed to the presence of humans have allowed humans to approach to within 50 meters before an increase in heart rate occurs (MacArthur et al. 1979). How much habituation occurs is not known. Whether prolonged sheep-human interaction significantly increases the stress levels in bighorn to the point where there is a decline in reproductive success or an increase in susceptibility to disease is not known. There are examples in Nevada of bighorn populations that have remained fairly constant for the past 50 years despite a significant increase in adjacent human recreational activity (McQuivey 1978). The most serious human impacts are those that remove habitat or block sheep access to needed resources, such as water holes. The bighorn sheep population in the Eagle Mountains appeared to habituate to past mining activities, as they were regularly observed near the mine and adjacent haul roads while the mine was active (Anderson, pers. comm., 1989). It is likely that will also habituate to landfill operations.

Use patterns in the currently disturbed portions of the landfill site will also be altered. Sheep currently cross through disturbed areas (1,700 acres) as they move within their ranges and to and from watering holes. Bighorn sheep will move out of the way of intensive landfill operations as they did during mining operations. As the landfill moves from one area of the mine pit to another, the sheep will likely move, utilizing new routes, as they must have done as mining moved to new ore deposits. Indirect impacts due to stress are likely to occur to sheep that use these disturbed portions of the landfill project.

Indirect impacts to sheep may occur with increased residential uses from the addition of over 150 employees to the vicinity of the project. Increased human activity and domestic pets are known to harass or stress sheep (Armentrout, pers. comm. 1990). Poaching could also increase due to the increased number of people in the area. If employees raise domestic livestock, impacts could occur to sheep by exposing them to livestock-related diseases (Armentrout, pers. comm. 1990). Bighorn sheep will move over 17 miles to investigate domestic sheep (Weaver, pers. comm. 1990), thus possibly exposing bighorn sheep to disease.

No impacts are expected to occur to Nelson's bighorn sheep with reimplementation of railroad service. The habitat is not prime sheep range and is a long, narrow strip. Only one case of rail death has been observed in California (Armentrout, pers. comm. 1990; Bleich, pers. comm. 1990) and, therefore, sheep are not expected to be directly injured or killed by moving trains. A significant impact may occur if sheep movement between ranges is disrupted by regular rail operation. Sheep populations in the Chocolate and Orocopia mountains could be affected by restricted gene flow if the sheep refuse to cross the rail line. No evidence exists to indicate the sheep did not cross the railroad during previous operations and at least one deer trail was observed crossing over the tracks. This incidental evidence suggests that sheep will continue to move over the tracks after reintroduction of rail operations.

No significant impacts are expected to occur to Nelson's bighorn sheep due to the implementation of the Eagle Mountain Road portion of the project. Bighorn sheep and their sign were not observed along the Eagle Mountain Road corridor during the field surveys. In addition, no movement corridors have been identified in the past for this species in this area. Habitat along Eagle Mountain Road is very sparse, in many places made up of desert pavement, and is not considered good range for bighorn sheep.

2. Mitigation/Compensation

The potential loss of three permanent water sources and one temporary water source is considered a significant impact. As compensation, three new permanent water sources, ensuring year-round water availability, will be placed away from the mine site to encourage bighorn sheep to use the surrounding natural areas rather than the project site. The creation of new water sources will compensate for the loss of water sources on the landfill site. The sites for the water sources and their design will be selected and/or approved by biologists from the BLM and the CDFG. In addition, Buzzard Springs will be rehabilitated and cleared of tamarisk, which will compensate for the loss of the temporary water source on the project site. A baseline telemetry study, involving approximately 17 sheep, will be conducted to determine the home ranges of ewes currently using the project site. Ewe home ranges are smaller than those of rams, and ewes show higher fidelity to their home ranges. Thus, ewes do not move as readily as rams. New water sources will be placed in ewe home ranges to facilitate ease of ewes finding these new sources. This change in home range should decrease bighorn stress from landfill operations by luring sheep away from disturbances. New water sources will be placed in habitat at least one year before water sources are removed to enable sheep to habituate to the new water sources. Home range studies will be conducted to determine if the sheeps' ranges are expanding to include the new water sources. If not, sheep will be translocated to the new water sources to encourage the incorporation of the water sources into their home ranges. New water sources for the bighorn sheep will be maintained throughout the 115-year life of the landfill project, and replaced by the project proponent if necessary.

Approximately 644 acres of potential bighorn sheep habitat will remain as natural open space around the periphery of the landfill project (see Figure 20). Not only will this habitat remain for sheep use, it will also act as a buffer zone between the landfill operation and the relocated sheep population. Virtually all of this proposed preserved habitat is located on public (selected) lands. Expanding sheep range into areas remote from the landfill will decrease the chance of stress-related impacts, and of contact with any potentially toxic substances at the landfill site.

An employee training program will be implemented and will include a discussion of bighorn sheep habits and habitat needs. This employee awareness program should increase acceptance and knowledge of bighorn, which may help sheep residing near the project. Interested employees can provide useful observational data.

Domestic sheep will be banned from the mine property to prevent disease transmission to bighorn sheep. All dogs will be confined to fenced yards, or otherwise restrained, to prevent harassment of bighorn in the vicinity of the landfill operation. Only authorized individuals will be allowed to possess firearms on the property to assure that no poaching of bighorn occurs.

IV. CONCLUSIONS

The implementation of the mitigation measures described in this biological assessment, developed through consultation with BLM, CDFG, and USFWS, will result in the determination that the proposed federal action will not significantly affect the continued existence of any threatened or endangered species on, or in the vicinity of, the proposed Eagle Mountain landfill project site. This document is being submitted to the USFWS for formal consultation as required under Section 7 of the federal Endangered Species Act.

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ATTACHMENTS

ATTACHMENT 1

WINTER BASELINE SURVEYS FOR BATS

A WINTER BASELINE SURVEY FOR BATS OF THE EAGLE MOUNTAIN PROJECT SITE
RIVERSIDE COUNTY, CALIFORNIA

Prepared by

PATRICIA E. BROWN, Ph.D.
WILDLIFE BIOLOGIST

658 Sonja Court
Ridgecrest, CA 93555

(619) 375-5518

For

RECON
7460 Mission Valley Road
San Diego, CA 92108

January 12, 1992

INTRODUCTION

In previous field surveys in May and December 1990, and June 1991, the presence of the California leaf-nosed bat (Macrotus californicus) was documented in the Kaiser Eagle Mountain Mine in Riverside County, California, part of which is located in Sections 32 through 34 of Township 3 South, Range 14 East and Sections 1 and 2 of Township 4 South, Range 14 East in the unincorporated area of the County of Riverside, State of California. Macrotus was discovered roosting in the main Kaiser Eagle Mountain Mine adit as well as one of the cement buildings on the mill site. Macrotus is a California Department of Fish and Game (CDFG) Species of Special Concern and a United States Fish and Wildlife Service (USFWS) Category 2 Candidate Species for Threatened or Endangered Status. The discovery of the leaf-nosed bat roost in the Kaiser mine represented the first record of this species from the Eagle Mountains.

The December 1990 survey of all mines in the Eagle and Coxcomb Mountains verified that the Kaiser adit was the only winter roost of Macrotus in the area, and sheltered approximately 115 bats of both sexes. The June 1991 study found 15 adult Macrotus and some babies in the Kaiser adit, and approximately 30 more adult females in the Blind Turkey #2 in adjacent Joshua Tree National Monument. The purpose of the present and future surveys is to obtain baseline population data during various seasons over several years before any development occurs.

METHODS

The present survey was conducted December 17-19, 1991. The first evening bats were counted using night vision equipment as they exited the main Kaiser adit. The following day, the mine was entered and the ares where the bats were roosting were examined and readings of temperature and humidity taken. The next evening, mist nets were placed over the mine entrances to capture bats as they emerged at dusk. The Macrotus were banded for subsequent individual identification since recapture data can provide information on longevity, movements and roost fidelity. The Black Eagle Mine, where isolated bats had been observed on previous visits, was also monitored at dusk.

RESULTS

On the evening of December 17, approximately 60 Macrotus were observed exiting from the Kaiser adit. This adit is quite extensive with several levels that can be thoroughly explored. The bottom level forms a U-shape with two entrances, and three other levels above it connected by a spiraling road. In December 1990, about 100 leaf-nosed bats were found in a chamber in the second level about 1300 meters from the entrance, but only 10 bats were seen here in December 1991. The temperature in this 40 foot high room is 81 F at ground level.

During both winter surveys, bats were observed in a crevice in the ceiling about 800 feet from the entrance on the west side of the U, where the temperature was 81.5 C at ground level. Not all the bats were visible in the crevice, but it is assumed that the majority of the bats this winter were roosting here. The mist nets set at the entrance on December 18 captured 6 male and 8 female Macrotus, including one female originally banded at the Lucky Turkey #2 adit on June 25. No bats were observed exiting the Black Eagle Mine on Kaiser property during this survey, although single Macrotus have been seen in the past.

DISCUSSION

As a result of surveys conducted in May, June and December, it appears that the leaf-nosed bat (Macrotus californicus) is a year-round resident of the Eagle Mountains. Winter roost sites for this species are limited in the California desert since they must be at least 80 F, which is warmer than the majority of mines. The main Kaiser adit is the only known roost for Macrotus in the Eagle Mountains. In December 1990, over 100 bats were observed exiting this mine, while in 1991 only 60 bats were seen. At this time it is difficult to assess whether this decline of 40 % is due to normal population fluctuations or some disturbance to the roost. Personnel involved in salvage and maintenance at the Kaiser facility have access to the mine.

RECOMMENDATIONS

Since the Kaiser adit is the main winter roost for Macrotus in the Eagle Mountains, as well as a maternity roost, it is desirable that this roost not be impacted as the proposed project proceeds. To determine the impact of the project and the effectiveness of mitigation procedures, long-term monitoring at different seasons should be continued. To that end, it is important that baseline values of population size during winter and summer be established based on monitoring over several years prior to the start of the project in order to document normal population fluctuations. Since the entrances of the Kaiser adit are being used for storage and this use is expected to increase, an approved bat gate should be installed beyond the storage area at each side of the U to reduce the chance of human disturbance of the bats.

A SUMMER SURVEY FOR BATS OF THE EAGLE MOUNTAIN PROJECT SITE RIVERSIDE COUNTY, CALIFORNIA

Prepared by

PATRICIA E. BROWN, Ph.D.
WILDLIFE BIOLOGIST

658 Sonja Court
Ridgecrest, CA 93555

(619) 375-5518

For

RECON
7460 Mission Valley Road
San Diego, CA 92108

October 27, 1991

INTRODUCTION

A summer field survey was conducted for sensitive bat species in the area of the Kaiser Eagle Mountain Mine in Riverside County, California, part of which is located in Sections 32 through 34 of Township 3 South, Range 14 East and Sections 1 and 2 of Township 4 South, Range 14 East in the unincorporated area of the County of Riverside, State of California. Although the area consists primarily of abandoned open pit iron mines, two underground mines occur on the property that can provide refugia for bats and other wildlife. In surveys conducted in May and December 1990, the California leaf-nosed bat (Macrotus californicus) was discovered roosting in the main Kaiser Eagle Mountain Mine adit as well as one of the cement buildings on the mill site. Macrotus is a California Department of Fish and Game (CDFG) Species of Special Concern and a United States Fish and Wildlife Service (USFWS) Category 2 Candidate Species for Threatened or Endangered Status. The discovery of the leaf-nosed bat roost in the Kaiser mine represented the first record of this species from the Eagle Mountains.

The December 1990 survey of all mines in the Eagle and Coxcomb Mountains verified that the Kaiser adit was the only winter roost of Macrotus in the area, and sheltered approximately 115 bats of both sexes. Guano of this species was found in several other adits in the Eagle Mountains, suggesting possibly other maternity roosts. The purpose of the current survey was to census the summer population in the Kaiser adit and to search for alternate maternity roosts in the area.

METHODS

The present survey was conducted June 23-25, 1991. Survey methods consisted of entering mines and buildings during the day and at night, and noting any bats or guano present. If possible bats were captured in hand nets to determine sex and reproductive status. Temperature and humidity readings were taken in those parts of the mines or buildings where bats or guano were found, as well as mines over 30 meters long that did not contain evidence of bats. Mist nets were placed over the mine entrances to capture bats as they emerged at dusk. The Macrotus were banded for subsequent individual identification since recapture data can provide information on longevity, movements and roost fidelity. In the evening outside potential bat roosts, a bat detector was used to monitor ultrasonic signals since many species emit distinctive sonar signals. A night vision scope was employed to watch bats exiting the mines in order to determine the species and approximate number present.

RESULTS

On the evening of June 24, approximately 15 Macrotus were observed exiting from the Kaiser adit. This adit is quite extensive with several levels that can be throughly explored. The bottom level forms a U-shape with two entrances, and three other levels above it connected by a spiraling road. During the May ,1990 survey of the main adit, a population of approximately 60 leaf-nosed bats was found in a chamber in the second level about 1300 meters from the entrance. About 100 bats were observed here in December 1990. The temperature in this 40 foot high room is 83 F at ground level in May and December. In May, no other diurnal roosting areas for this species was found in the mine, although guano and moth wings near the entrance suggested that this area is used for night roosting.

During the winter survey, 21 bats were seen in a crevice in the ceiling about 800 feet from the entrance on the west side of the U. Since care must be taken not to disturb a possible maternity roost, in June the mine was entered 2 hours after dusk, when most bats should be foraging. One female bat, clearly lactating, was observed in the roosting area on the west side of the U. Isolation calls of infant bats could be heard from the rock crevice, but none were seen. A single bat, sex undetermined, was observed flying in the second level. On June 25, a male Macrotus was captured in a mist net while entering the mine 2 hours after dusk. On the same night at the Black Eagle Mine on Kaiser property, only one Macrotus was seen to exit within the hour after dusk.

On the evening of June 23 and during the day on June 25, one leaf-nosed bat was found in the metal culvert just west of the main mill site, but evidence of large guano deposits suggest a larger night roost at some times of the year. During the day and at night, 2 leaf-nosed bats, including a male that was captured, were seen in the long cylindrical concrete building at the mill site. Two Myotis sp. were also seen flying in this building in the evening.

Other mines visited in the Eagle Mountains included the Lucky Turkey #2 within Joshua Tree National Monument, which contained a large amount of Macrotus guano at the rear of the 240 foot adit during the winter survey. On June 25, it housed 30 Macrotus, most of which had babies attached. The 68 F temperature in December was too cool for a winter roost, but the 85 degrees in summer was perfect for a maternity colony. In December, two other unnamed adits located approximately a mile south of the Lucky Turkey #2, each about 150 feet deep with temperatures of 80 F, had contained leaf-nosed bat guano, as well as that of the little brown bat (Myotis sp.) and pallid bat (Antrozous pallidus). A male Macrotus was found in one in June. The amount of guano present indicates a large concentration of these bats at some time of the year.

DISCUSSION

As a result of surveys conducted in May, June and December, it appears that the leaf-nosed bat (Macrotus californicus) is a year-round resident of the Eagle Mountains. Winter roost sites for this species are limited in the California desert since they must be at least 80 F, which is warmer than the majority of mines. At least 100 leaf-nosed bats use the main Kaiser mine adit as a diurnal retreat, while possibly only a few bats inhabit the Black Eagle shaft. These were the only mines where leaf-nosed bats were found in the winter survey.

In the spring and summer, the temperatures in the mines, especially near entrances, is considerably warmer and roost sites are not as limited. In June, 15 adult Macrotus were found in the main Kaiser adit, and the sounds of infant bats were heard. Thirty mother leaf-nosed bats were also seen in the Blind Turkey #2 adit. These two roosts account for almost half of the winter population in the Kaiser adit. The other half of the bats in the winter roost could be males, which usually occupy a variety of roosts during the summer and do not form the large concentrations of the winter or maternity roosts. Isolated male bats were seen in a adit a mile south of the Lucky turkey #2 and in the culverts and cylindrical concrete building at the mill site.

RECOMMENDATIONS

Since the Kaiser adit is the main winter roost for Macrotus in the Eagle Mountains, as well as a maternity roost, it is desirable that this roost not be closed as the proposed project proceeds. To determine the impact of the project and the effectiveness of mitigation procedures, long-term monitoring at different seasons should be required. To that end, it is important that baseline values of population size during winter and summer be established based on monitoring over several years prior to the start of the project in order to document normal population fluctuations. Sine the entrances of the Kaiser adit are being used for storage and this use is expected to increase, an approved bat gate should be installed beyond the storage area at each side of the U to reduce the chance of human disturbance of the bats.

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A WINTER SURVEY FOR BATS OF THE EAGLE MOUNTAIN PROJECT SITE RIVERSIDE COUNTY, CALIFORNIA

Prepared by

PATRICIA E. BROWN, Ph.D.
WILDLIFE BIOLOGIST

658 Sonja Court
Ridgecrest, CA 93555

(619) 375-5518

For

RECON
7460 Mission Valley Road
San Diego, CA 92108

February 15, 1991

INTRODUCTION

A winter field survey was conducted for sensitive bat species in the area of the Kaiser Eagle Mountain Mine in Riverside County, California, part of which is located in Sections 32 through 34 of Township 3 South, Range 14 East and Sections 1 and 2 of Township 4 South, Range 14 East in the unincorporated area of the County of Riverside, State of California. Although the area consists primarily of abandoned open pit iron mines, two underground mines occur on the property that can provide refugia for bats and other wildlife. In a preliminary survey conducted from May 25-28, 1990, the California leaf-nosed bat (Macrotus californicus) was discovered roosting in the main Kaiser Eagle Mountain Mine adit as well as one of the cement buildings on the mill site. Macrotus is a California Department of Fish and Game (CDFG) Species of Special Concern and a United States Fish and Wildlife Service (USFWS) Category 2 Candidate Species for Threatened or Endangered Status.

The discovery of the leaf-nosed bat roost in the Kaiser mine represented the first record of this species from the Eagle Mountains. Most current known roosts are from mines in mountains bordering the Colorado River. Single Macrotus were found in the McCoy Mountains approximately 30 miles to the east by Dr. Brown in March 1989 and December 1990. A single specimen was collected by Grinnell in 1908 in Mecca which is about 50 miles to the southwest, although no roosts are now known from that area. This species roosts in warm mine tunnels, and the Eagle Mountain adit which was abandoned in 1972, fits these requirements. The capture of a pregnant female suggested that this is also a maternity roost. Additional surveys were needed to determine if this is the case, and if Macrotus also inhabits the mine during the winter. To this end, a winter survey was conducted of the mines surveyed during May 1990, as well as mines in the Eagle and Coxcomb Mountains near the proposed project area in an effort to determine if other suitable alternate roosts exist for this species should the Kaiser adit be closed. This survey covered the mines found in the Eagle Mountains between Range 13 East and 15 East and between Township 2 South and 5 South, and in the Coxcomb Mountains within Range 16 East and Township 2 South . Since many of these areas are not adequately surveyed by USGS, section information is not available.

The California leaf-nosed bat is the most northerly representative of the Phyllostomatidae, a predominantly Neotropical family. Macrotus neither hibernates nor migrates and remains active all year in the southern deserts, where they inhabit warm, humid mine adits and shafts above the annual mean temperature. The winter roosts selected by Macrotus exhibit stable temperatures greater than 28 C and relative humidities above 22%. These mines appear to be located in geothermally-heated rock formations of moderate temperature. Except for the approximately two-hour nightly foraging period in the winter, Macrotus inhabits a stable warm, tropical environment. (During warmer months, the bats may select a more exposed night roost in which to rest between foraging periods.) Roosts with high temperature and humidity appear to be a limiting factor in the distribution of this species in California, since less than 5% of the mines in the mountains bordering the Colorado River contain Macrotus. During the late spring and summer, maternity roosts form near mine entrances where temperatures are now warm. This provides ready access for the mother to the young, when she returns to nurse them between nightly foraging bouts.

During this survey, special attention was paid for any evidence of Townsend's big-eared bat (Plecotus townsendii) which is also a CDFG Species of Special Concern and a USFWS Category 2 Candidate Species for Threatened or Endangered Status. Townsend's big-eared bat is basically a cave-roosting species that has moved into man-made caves such as mines and buildings. Unlike many other bats, they are unable to crawl into crevices, and usually roost in exposed areas where they are vulnerable to disturbance. Plecotus is quite sensitive to human disturbance, and this appears to be the primary cause of population decline for this species. This bat is colonial during the maternity season, when compact clusters of up to 200 individuals might be found. Maternity roosts form in the spring and remain intact during the summer. Great fidelity exists for a roost site, and if undisturbed the bats will use the same roost for many generations. In the winter, Plecotus hibernate in cool caves and mine tunnels. Hibernation is a critical time for the species, since disturbance which causes arousal may expend energy reserves needed to survive the winter. The hibernation period in the California desert will vary with ambient temperature, but is generally from late November through early March.

METHODS

The winter survey was conducted from December 2 through 7 and 14 through 16, 1990. On December 3, an aerial reconnaissance of the Eagle and Coxcomb Mountains was conducted from a single engine Cessna to pinpoint mine dumps, especially those of mines which were not shown on the topo maps. Ground survey methods consisted of entering mines during the day, and noting any bats or guano present. If possible bats were captured in hand nets to determine sex and reproductive status. Temperature and humidity readings were taken in those parts of the mines or buildings where bats or guano were found, as well as mines over 30 meters long that did not contain evidence of bats.

Mist nets were placed over the mine entrances to capture bats as they emerged at dusk. The Macrotus were banded for subsequent individual identification since recapture data can provide information on longevity, movements and roost fidelity. In the evening outside potential bat roosts, a bat detector was used to monitor ultrasonic signals since many species emit distinctive sonar signals. A night vision scope was employed to watch bats exiting the mines in order to determine the species and approximate number present.

RESULTS

The first question was to determine whether the bats were winter residents of the Eagle Mountains. Two underground mine workings occur on the project site. The main Kaiser mine adit is quite extensive with several levels that can be throughly explored. The bottom level forms a U-shape with two entrances. The Black Eagle Mine in the southwest corner of the project area consists of a single shaft with cross-cuts necessitating entry with a rope to reach the first level at 60 feet, while deeper levels cannot be safely accessed. In addition several buried inclined culverts and buildings were searched in which bats or guano were found during the May survey.

During the May survey of the main adit, a population of approximately 60 leaf-nosed bats was found in a chamber in the second level about 1300 meters from the entrance. The temperature in this 40 foot high room was 83 F at ground level in May and December. In May, no other diurnal roosting areas for this species was found in the mine, although guano and moth wings near the entrance suggested that this area is used for night roosting. During the winter survey, approximately 100 bats were observed in the second level chamber, while 21 bats were seen in a crevice in the ceiling about 800 feet from the entrance on the west side of the U. On December 3, 8 female and 5 male Macrotus were captured in a mist net while exiting the mine at dusk. Using the night vision equipment, 17 bats were observed exiting from the west side and 97 from the east side on December 6.

At the Black Eagle Mine on December 6, only two Macrotus were seen to exit within the hour after dusk. On the evening of December 15, Dr. Berry descended into the shaft to obtain temperature readings, while Dr. Brown observed with the night vision scope from above. At 2000 hours, a Macrotus entered the mine and continued flying down the shaft beyond the 60 foot level. The temperature at the first level was only 69 F and too cool for a roosting site, but the mine is reputed to be 600 feet deep, and so suitable habitat may exist. However, judging by the observations made at dusk, there are few resident bats at this time of year.

No bats were found in the two metal culverts just west of the main mill site, but evidence of large guano deposits suggest a night roost. During May, 20 leaf-nosed bats, including a pregnant female that was captured, were seen in the long cylindrical concrete building at the mill site during the day. In December, no bats were observed there, suggesting that this roost is used only during warmer periods.

Other mines visited in the Eagle Mountains included the Lucky Turkey #2, the Hard Digging Mine, and the Mystery Mine (all within Joshua Tree National Monument), and the Iron Chief, Mission Sweet, Rainbow's End, Storm Jade, Sentinel and Orofino to the south and west of the project site. The Iron Chief Mine is the largest and most extensive of the mines visited, but it was too cool for Macrotus, and only contained some scattered Myotis guano. The Lucky Turkey #2 contained a large amount of Macrotus guano at the rear of the 240 foot adit where a shaft came down from above, suggesting the possibility of a maternity roost in the summer. The 68 F temperature in December would be too cool for a winter roost. Two other unnamed adits located approximately a mile south of the Lucky Turkey #2, each about 150 feet deep with temperatures of 80 F, contained leaf-nosed bat guano, as well as that of the little brown bat (Myotis sp.) and pallid bat (Antrozous pallidus). No bats were seen at this time. The 30 foot prospect on the hill above the Mission Sweet contained scat of both desert tortoise (Xerobates agassizi) and ringtail cat (Bassariscus astutus).

Only two adits of any extent were found in the Coxcomb Mountains. Located in a canyon on the northeast side of the range within Range 16 East and Township 2 South, they were not named on the topo sheets. The 100 foot adit at the head of the canyon contained no bat sign, while a possibly larger adit at a lower elevation was protected by a locked metal door. Both this entrance and a shaft above it were monitored at dusk, but no bats emerged.

DISCUSSION

As a result of surveys conducted in May and December, it appears that the leaf-nosed bat (Macrotus californicus) is a year-round resident of the Eagle Mountains. Winter roost sites for this species are limited in the California desert since they must be at least 80 F, which is warmer than the majority of mines. At least 100 leaf-nosed bats use the main Kaiser mine adit as a diurnal retreat, while possibly only a few bats inhabit the Black Eagle shaft. These were the only mines where leaf-nosed bats were found in the winter survey.

In the spring and summer, the temperatures in the mines, especially near entrances, is considerably warmer. In May, Macrotus were found in the main Kaiser adit, as well as the pseudo-mine concrete building by the mill site. The possibility exists that this is a maternity roost. The discovery of Macrotus guano in the Blind Turkey #2 adit and two others south of it, suggests that these might also be summer roosts.

Townsend's big-eared bat (Plecotus townsendii) was not encountered on the project site during either the May or December surveys. However, its occurrence cannot be totally ruled out since the Black Eagle was not monitored in May for bat outflights. The guano of the pallid bat (recently added to the list of CDFG Species of Special Concern) was found in the two adits west of the project site. This species roosts in mines and rock crevices and was also mist-netted over the pond in the bottom of the Kaiser pit during the spring survey.

RECOMMENDATIONS

1. Summer surveys of the concrete building and culverts is needed to determine if these are used by Macrotus when no disturbance has occurred in the main mine adit. Also in summer, the outflight of the Kaiser mine adit and the Black Eagle Mine should be monitored at dusk. The Blind Turkey #2 and the two unnamed mine adits where Macrotus guano was found should be checked in the summer to determine if maternity roosts exist in the Eagle Mountains off of the project site.

2. Since the Kaiser adit appears to be the main winter roost for Macrotus in the Eagle Mountains, it is desirable that this roost not be closed as the proposed project proceeds. Since the expected impact would be to cover the entrance with a growing garbage deposit, it might be possible to extend the adit at an angle upward by the addition of a culvert. To determine the effectiveness of this mitigation procedure, long-term monitoring at different seasons should be required. To that end, it is important that baseline values of population size be established based on monitoring over several years previous to the start of the project.

A SURVEY FOR BATS OF THE EAGLE MOUNTAIN PROJECT SITE
RIVERSIDE COUNTY, CALIFORNIA

Prepared by

PATRICIA E. BROWN, Ph.D.
WILDLIFE BIOLOGIST

658 Sonja Court
Ridgecrest, CA 93555

(619) 375-5518

For

RECON
1276 Morena Boulevard
San Diego, CA 92110

June 27, 1990

INTRODUCTION

A field survey was conducted for sensitive bat species in the area of the Kaiser Eagle Mountain Mine in Riverside County, California, part of which is located in Sections 32 through 34 of Township 3 South, Range 14 East and Sections 1 and 2 of Township 4 South, Range 14 East in the unincorporated area of the County of Riverside, State of California. Although the area consists primarily of abandoned open pit iron mines, two underground mines occur on the property and could provide refugia for bats and other wildlife. Special attention was given to the California leaf-nosed bat (Macrotus californicus) and Townsend's Big-eared bat (Plecotus townsendii) which are California Department of Fish and Game (CDFG) Species of Special Concern and United States Fish and Wildlife Service (USFWS) Category 2 Candidate Species for Threatened or Endangered Status.

The California leaf-nosed bat is the most northerly representative of the Phyllostomatidae, a predominantly Neotropical family. Macrotus neither hibernates nor migrates and remains active all year in the southern deserts, where they inhabit warm, humid mine adits and shafts above the annual mean temperature. The winter roosts selected by Macrotus exhibit stable temperatures greater than 28 C and relative humidities above 22%. These mines appear to be located in geothermally-heated rock formations of moderate temperature. Except for the approximately two-hour nightly foraging period, Macrotus inhabits a stable warm, tropical environment. (During warmer months, the bats may select a more exposed night roost in which to rest between foraging periods.) Roosts with high temperature and humidity appear to be a limiting factor in the distribution of this species in California, since less than 5% of the mines in the mountains bordering the Colorado River contain Macrotus.

Townsend's big-eared bat is basically a cave-roosting species that has moved into man-made caves such as mines and buildings. Unlike many other bats, they are unable to crawl into crevices, and usually roost in exposed areas where they are vulnerable to disturbance. Plecotus is quite sensitive to human disturbance, and this appears to be the primary cause of population decline for this species. This bat is colonial during the maternity season, when compact clusters of up to 200 individuals might be found. Maternity roosts form in the spring and remain intact during the summer. Great fidelity exists for a roost site, and if undisturbed the bats will use the same roost for many generations.

In the winter, Plecotus hibernate in cool caves and mine tunnels. Hibernation is a critical time for the species, since disturbance which causes arousal may expend energy reserves needed to survive the winter. The hibernation period in the California desert will vary with ambient temperature, but is generally from late November through early March.

METHODS

The survey was conducted from May 25 through 28, 1990. Survey methods consisted of entering mines and buildings during the day, and noting any bats or guano present. If possible bats were captured in hand nets to determine species and reproductive status. Two underground mine workings occur on the project site. The main Kaiser mine was quite extensive with several levels that could be throughly explored. The Black Eagle Mine in the southwest corner consisted of a single shaft without a safe ladder and was not entered. In addition several buried inclined culverts and buildings were surveyed as potential bat roosts. Temperature and humidity readings were taken in those parts of the mines or buildings where bats or guano were found.

Mist nets were placed over the mine entrances to capture bats as they emerged at dusk. These bats were identified as to species, sex and reproductive status. The Macrotus were banded for subsequent individual identification. Recapture data provides information on longevity, movements and roost fidelity.

On two evenings, mist nets were placed over water sources which included a pond at the bottom of an open pit mine and the drinking water reservoir for the mine. A bat detector was used to monitor ultrasonic signals since many species emit distinctive sonar signals. A night vision scope was employed to watch bats flying over the ponds and exiting the mine in order to determine the species and approximate number present.

RESULTS

During the diurnal survey of the main adit, a population of approximately 60 leaf-nosed bats was found in a chamber in the second level about 1300 meters from the entrance. The temperature in this 40 foot high room was 83 F at ground level. No other diurnal roosting areas for this species was found in the mine, although guano and moth wings near the entrance suggest that this area is used for night roosting. After dusk, only 18 bats were observed exiting the mine, and only 2 males were captured in the mist nets set at the entrance. It is possible that the disturbance caused by entering the roost during the day inhibited their nighttime departure. Around the corner from the mine entrance, a concrete structure built into the hill contained a large amount of guano and moth wings. A male Macrotus was captured here approximately 3 hours after dusk. Other night roosts of

Macrotus were found in the two metal culverts just west of the main mill site, and in the long cylindical concrete building at the mill site. This may also be a diurnal retreat during certain times of the year, since the morning after our entrance into the mine, 20 bats were observed, including a male banded the night before at the mine. Of two bats captured in hand nets, one was a male and the other a pregnant female, approximately 3 weeks prior to parturition. It is possible that this is an alternate diurnal retreat that is used only after disturbance in the mine.

In addition to Macrotus guano in the mine, a two-foot diameter circle of Plecotus guano, which is diagnostic of a maternity roost, was found approximately 1000 meters from the entance on the first level. The guano was probably a year old, and no bats of this species were found in the mine.

A male pallid bat (Antrozous pallidus) was captured in the mist net set over the mine pit pond. Although many western pipistrelles (Pipistrellus hesperus) were monitored with the bat detector and observed flying around the nets over the pond and reservoir, none were captured. A Mexican free-tailed bat (Tadarida brasiliensis) was heard flying over the reservoir. A list of bat species which might occur at various times in the project site is given in Table 1.

DISCUSSION

The discovery of the leaf-nosed bat roost in the Kaiser Eagle Mountain mine represents the first record of this species from this mountain range. Most current known roosts are from mines in mountains bordering the Colorado River. A single Macrotus was found in the McCoy Mountains approximately 30 miles to the east by Dr. Brown in March 1989. A single specimen was collected by Grinnell in 1908 in Mecca which is about 50 miles to the southwest, although no roosts are now known from that area. This species roosts in warm mine tunnels, and the Eagle Mountain adit which was abandoned in 1972 fits these requirements. The capture of a pregnant female suggests that this is also a maternity roost. Additional surveys need to be conducted to determine if this is indeed the case, and if Macrotus also inhabits the mine during the winter.

Although no Plecotus were found during this survey, the presence of guano in the circular formation typical of depositions beneath a maternity roost is evidence of past roosting activity. Surveys should be conducted during other times of the year to determine if this sensitive species occurs on the project site.

RECOMMENDATIONS

1. Diurnal survey of the concrete building and culverts to determine if these are used by _Macrotus_ when no disturbance has occurred in the mine adit.

2. Monitor the outflight of the mine adit at dusk and count bats without people previously entering the mine. This should be done in summer and winter.

3. Activity around the mine and concrete building should be curtailed and access to these areas restricted to avoid disturbance to a sensitive bat species.

4. Monitor the Black Eagle Mine at dusk to determine if bats inhabit the shaft.

5. Survey other mines in the Eagle Mountains to determine if the Kaiser adit is the only _Macrotus_ roost in the region.

6. Conduct a survey at different times of the year for _Plecotus_ (in the summer and winter).

TABLE I

1. Order Chiroptera	Bats
Family Phyllostomatidae	Leaf-nosed bats
*Macrotus californicus**	California leaf-nosed bat
Family Molossidae	Free-tailed bats
Tadarida brasiliensis	Mexican free-tailed bat
Nyctinomops femorosaccus	Pocketed free-tailed bat
Eumops perotis	California mastiff bat
Family Vespertilionidae	Plain-nosed bats
*Antrozous pallidus**	Pallid bat
*Plecotus townsendii**	Townsend's big-eared bat
*Pipistrellus hesperus**	Western pipistrelle or canyon bat
Eptesicus fuscus	Big brown bat
Myotis californicus	California Myotis
Myotis yumanensis	Yuma Myotis
Myotis volans	Long-legged Myotis
Myotis thysanodes	Fringed Myotis
Myotis leibii	Small-footed Myotis
Lasionycteris noctivagans	Silver-haired bat
Lasiurus cinereus	Hoary bat
Lasiurus ega	Western yellow bat
Euderma maculatum	Spotted bat

* evidence of presence on project site

Other vertebrates observed during survey 5/26/90 to 5/28/90

Reservoir

Western woodpee (2)
Yellow warbler (2)
Wilson's warbler (2)
Lucy's warbler (2)
Red-spotted toad

Pit at mine bottom

Western flycatcher (2)
Wilson's warbler
House finch (13)
Red-spotted toad

Residential area

Hooded oriole (1)
Black-headed grosbeak (1)
Lucy's warbler (3) breeding
Warbling vireo (1)
Yellow-breasted chat (1)

General in area

Red-tailed hawk
Raven
American kestrel
Turkey vulture

ATTACHMENT 2

DESERT PUPFISH SURVEY

Memorandum

To : Fisheries Management, Region 5

Date : May 16, 1986

RECEIVED
DEC 8 1989
RECON

From : Department of Fish and Game - Kimberly Nicol

Subject : Desert Pupfish Survey, Salt Creek, Riverside County

A survey to determine if desert pupfish still occurred in the Salt Creek drainage, Riverside County, was conducted April 29 - May 1, 1986.

Twenty minnow traps baited with cat food were set overnight along Salt Creek from the Hwy. 111 crossing to the mining railroad tresler (Figure 1). Traps were set in depths 10-120 cm. Water temperature ranged from 17 to 33°C, and conductivity ranged from 3,400 - 34,000 umhos.

Seventy pupfish were caught. All pupfish were caught in a 250 m stretch of the creek between the powerline road and the mining railroad tresle, where the creek widens and forms pools with low flows. In these areas algae and detritus were abundant. Other areas in this section, besides where the pupfish were caught, appeared to provide good pupfish habitat but were too shallow to set traps.

Other species caught were mosquitofish (20), sailfin mollies (7), crayfish (27), and freshwater shrimp (8).

Other areas along the creek were not surveyed because an abundant growth of cattails and salt cedar made it impossible to get to the water in the creek.

I would like to thank Darlene McGriff, Patty Young, and Glenn Black of Fish and Game, and Faye Winters from BLM for their assistance in conducting these surveys.

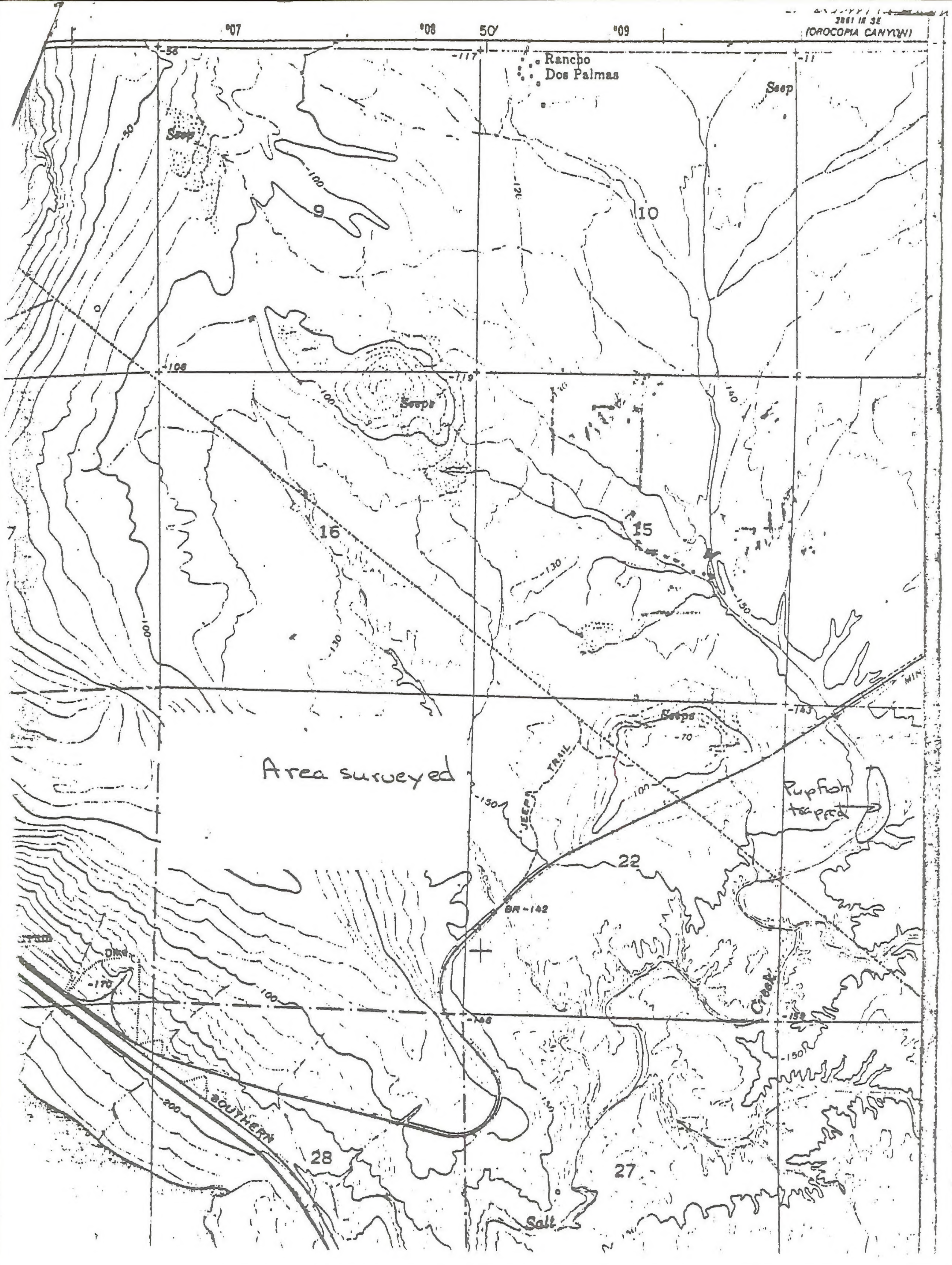
Kimberly Nicol dr

Kimberly Nicol
Fishery Biologist
Region 5

Attachment

cc: G. Black
D. McGriff
C. Shaw
F. Winters, BLM
R. Bransfield, FWS

KN:dr


3861 III SE
(OROCOPIA CANYON)
07
08
50'
09
-56
-117
-11
Rancho
Dos Palmas
Seep
Seep
50
100
9
120
10
0
-108
-119
Seeps
140
16
15
130
100
130
150
Seeps
-70
-143
MIN
Area surveyed
Pupfish trapped
JEEP TRAIL
100
-150
22
BR-142
-170
100
-148
Creek
-159
-150
200
SOUTHERN
28
27
Salt

ATTACHMENT 3

SUPPLEMENTAL DESERT TORTOISE SURVEY

SUPPLEMENTAL DESERT TORTOISE SURVEY FOR THE EAGLE MOUNTAIN LANDFILL PROJECT IN RIVERSIDE COUNTY, CALIFORNIA

Prepared for

MINE RECLAMATION CORPORATION
12440 EAST IMPERIAL HIGHWAY, SECOND FLOOR
NORWALK, CA 90650

Prepared by

, for

DAVID N. LAWHEAD
ECOLOGIST

RECON
Regional Environmental Consultants
7460 Mission Valley Road, San Diego, CA 92108 (619) 542-1611

RECON NUMBER 2100B
FEBRUARY 7, 1992

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I. Introduction

During the course of the biological inventory of lands affected by the Eagle Mountain Landfill Project, surveys for the desert tortoise (*Gopherus agassizii*) were conducted along the Eagle Mountain Road and Eagle Mountain rail line rights-of-way (Figures 1 and 2). General surveys for tortoise sign were not conducted outside of these 200-foot-wide rights-of-way, except on the selected Kaiser lands along the rail line.

During discussions with the U.S. Fish and Wildlife Service (USFWS) and the Bureau of Land Management (BLM) in conjunction with an informal Section 7 (Endangered Species Act [ESA]) consultation, it was requested that RECON conduct additional tortoise surveys in the vicinity of Eagle Mountain Road and Kaiser Road to assess tortoise population densities in the areas surrounding the rights-of-way. These data are necessary to assess the likelihood of direct and indirect impacts to desert tortoise from the expected increase in road traffic along Eagle Mountain Road and Kaiser Road. The additional data are also necessary to define where tortoise barriers and culverts should be located along the road to prevent "take" from vehicle-tortoise collisions.

II. Survey Methods

A total of 12 desert tortoise transect sets were run on October 8 and 9, 1991, in the vicinity of the Eagle Mountain Landfill Project. Eight transect sets were located adjacent to the Eagle Mountain Road right-of-way between Interstate 10 (I-10) and the town of Eagle Mountain. Four more transect sets were run adjacent to the Eagle Mountain rail line within the BLM's Chuckwalla Bench Area of Critical Environmental Concern (ACEC) just south of I-10. The transects along this portion of the rail line were selected to act as controls, since they were placed in BLM Category 1 (i.e., high quality) desert tortoise habitat. On January 21, 1992, six more transects were run adjacent to Kaiser Road. See Figures 3 and 4 for transect locations.

Each transect set consisted of three or four 1-mile-long by 30-foot-wide belt transects, which run parallel and immediately adjacent to one another. All transects along the Eagle Mountain Road and Kaiser Road rights-of-way were run approximately parallel to each right-of-way. The location of transect sets was selected based upon several criteria, including the site's apparent general potential for supporting desert tortoise, location of tortoise sign found by RECON within the rights-of-way in 1989, soil, vegetation, slope and aspect, and water drainage patterns. All transects adjacent to roadways were placed a minimum of one-half mile from the right-of-way to minimize the effects of proximity to traffic on the currently active portion of the road.

Transects adjacent to the Eagle Mountain rail line were not placed parallel to the tracks. Transect sets in this control area were placed one-tenth mile from the tracks. The rail

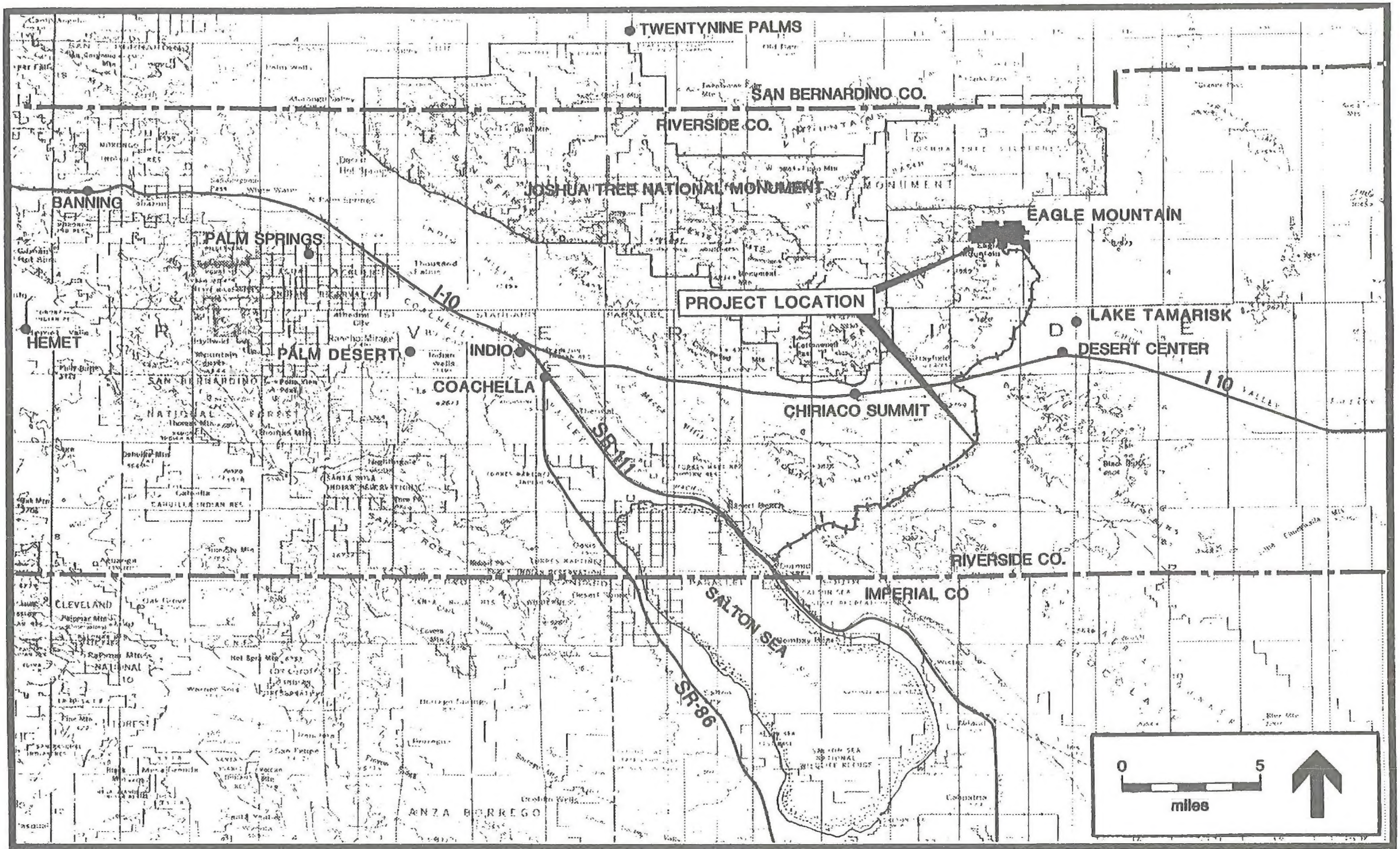

FIGURE 1. PROJECT LOCATION RELATIVE TO EASTERN RIVERSIDE COUNTY

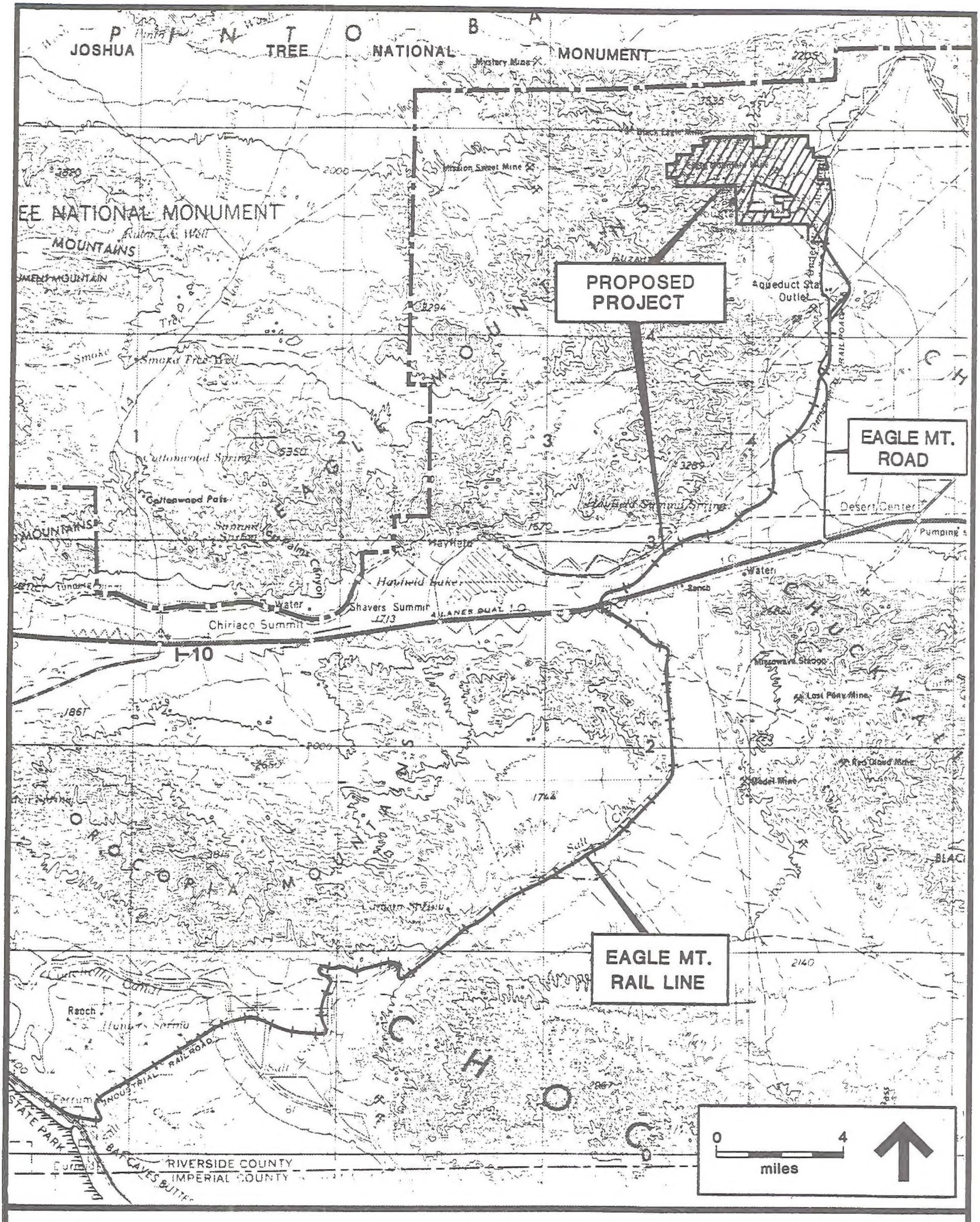

FIGURE 2. PROJECT LOCATION ON U.S.G.S. 1:250,000 SCALE MAP, SALTON SEA SHEET

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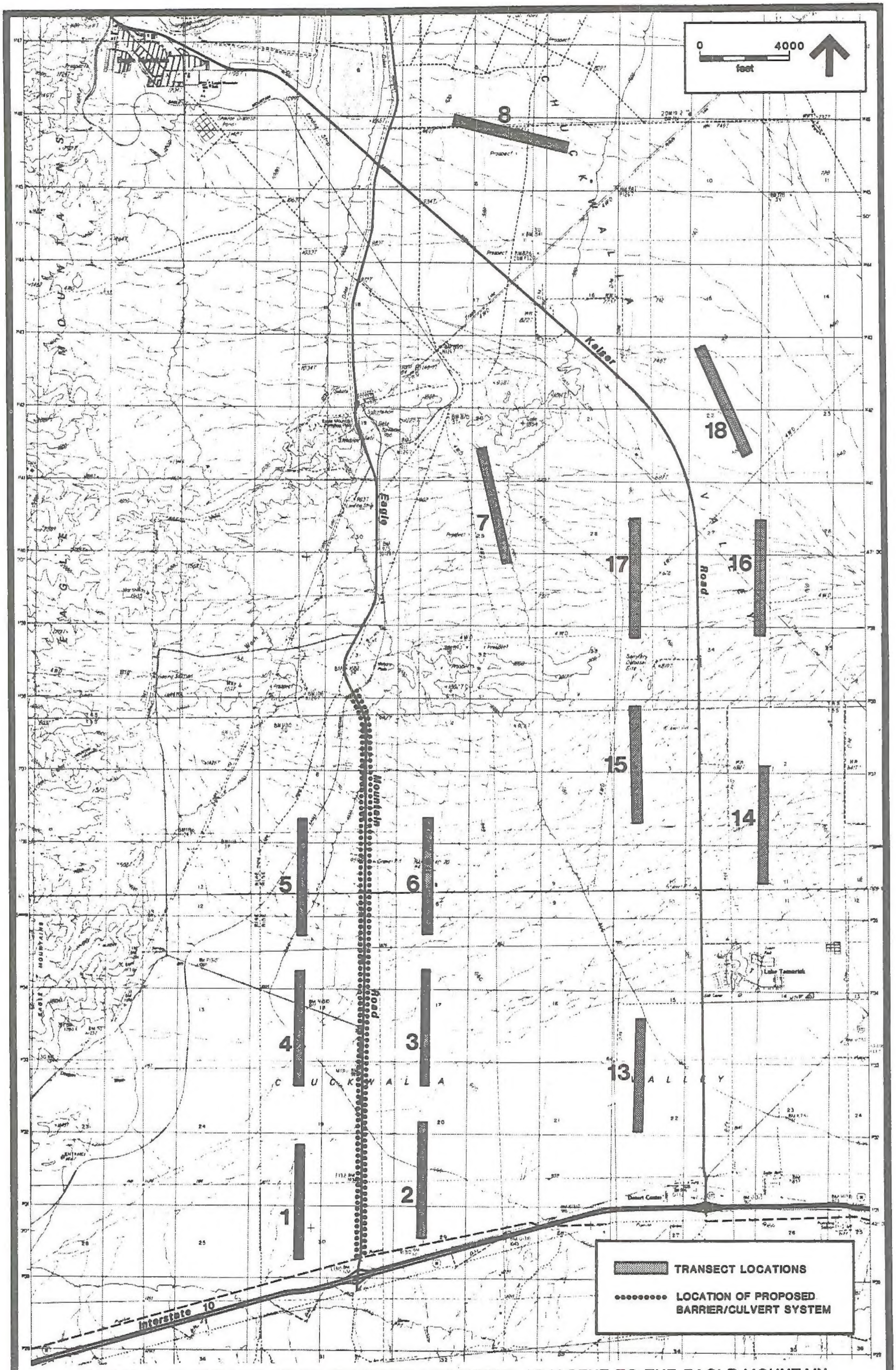

FIGURE 3. DESERT TORTOISE TRANSECT LOCATIONS ADJACENT TO THE EAGLE MOUNTAIN ROAD

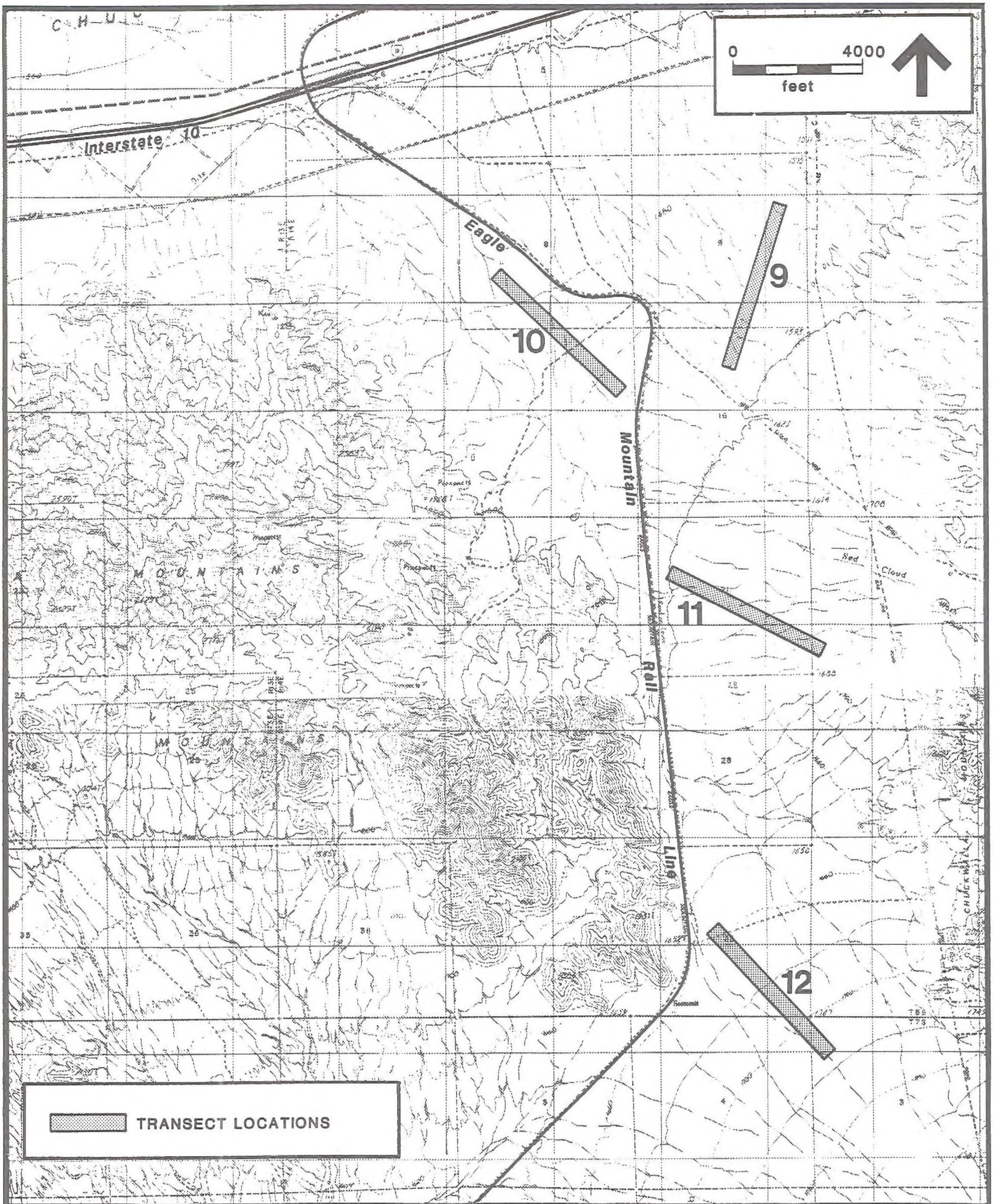

FIGURE 4. DESERT TORTOISE TRANSECT LOCATIONS ADJACENT TO THE EAGLE MOUNTAIN RAIL LINE RIGHT-OF-WAY

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line is inactive, and is unlikely to influence the distribution of tortoise activity at this time.

Within each belt transect, all desert tortoise sign was recorded, along with the one-tenth mile at which the sign was found. Desert tortoise sign included burrows, pallets, scats, shell fragments, and tracks. The location of any desert tortoise was also recorded, and for this analysis was considered equivalent to tortoise sign. For comparison purposes, the results of each transect set were calculated as the number of sign per mile walked.

A general description of the habitat conditions was made for each transect set. This description included vegetation, soils, slope, aspect, and current weather conditions.

III. Results

Tables 1 and 2 show the results of the desert tortoise transects run adjacent to the Eagle Mountain Road, Kaiser Road, and Eagle Mountain rail line rights-of-way. Tables 3, 4, and 5 describe the habitat conditions found at each transect set.

There is a substantial difference in the abundance of tortoise sign between habitat adjacent to Eagle Mountain and Kaiser Roads and that found adjacent to the Eagle Mountain rail line within the ACEC south of I-10. In terms of average number of sign per mile of transect walked, sign was approximately four to eight times more abundant adjacent to the rail line as compared to the roads. This difference in tortoise sign abundance corresponds well to BLM estimates of tortoise density differences between the two sites. Berry and Nicholson (1984) estimated desert tortoise densities at 20 to 50 per square mile in the vicinity of Eagle Mountain Road, and 100 to 250 per square mile in the ACEC along the rail line south of I-10. This estimate results in a five to one difference in tortoise abundance, close to the difference estimated from this study.

Because of the time of year of the study and the limited nature of the surveys, the data collected from this study can only be used to make relative estimates of tortoise densities. During the survey adjacent to Eagle Mountain Road, 98 acres were thoroughly censused and one tortoise was detected. This yields a tortoise density estimate of 6.5 tortoises per square mile. Using only data from transects between I-10 and Victory Pass yields a density estimate of 8.8 tortoises per square mile. Of the 58 acres surveyed in the Chuckwalla Bench ACEC two tortoises were detected, yielding a density estimate of 22 tortoises per square mile. These density estimates are conservative because they assume that all tortoises within the survey areas were detected. Similar to the difference in tortoise sign abundance, tortoise density is roughly three to four times greater in the ACEC than in the vicinity of Eagle Mountain Road. No tortoise density estimates were possible for transects along Kaiser Road because tortoises were not active during the

TABLE 1
DESERT TORTOISE SIGN FOUND ON TRANSECTS ADJACENT TO EAGLE MOUNTAIN ROAD AND EAGLE MOUNTAIN RAIL LINE RIGHTS-OF-WAY

Transect Number	Number of Sign*	Transect Length (mile)	Sign/Mile
Eagle Mountain Road			
1	6	3	2.00
2	4	3	1.33
3	2	3	0.67
4	9	3	3.00
5	3	4	0.75
6	6	4	1.50
7	0	4	0
8	0	3	0
Total:	30	27	
Average:	3.75		1.11
Eagle Mountain Rail Line			
9	20	4	5.00
10	12	4	3.00
11	6	4	1.50
12	26	4	6.50
Total:	64	16	
Average:	16.00		4.00
Kaiser Road			
13	5	4	1.25
14	0	4	0
15	4	4	1.00
16	0	4	0
17	1	4	0.25
18	1	4	0.25
Total:	11	24	
Average:	1.83		0.46

*Sign = burrows, pallets, scats, tracks, shell fragments, and tortoise sightings.

TABLE 2
NUMBER AND TYPE OF DESERT TORTOISE SIGN FOUND ON TRANSECTS ADJACENT TO EAGLE MOUNTAIN ROAD, KAISER ROAD AND EAGLE MOUNTAIN RAIL LINE RIGHTS-OF-WAY

	Sign				
	Burrows	Pallets	Scats	Fragments	Shell Tortoises
Eagle Mountain Road	15	11	3	0	1
Number/mile	0.56	0.41	0.11	0	0.04
Kaiser Road	5	6	0	0	0
Number/mile	0.21	0.25	0	0	0
Eagle Mountain Rail Line	34	18	7	4	2
Number/mile	2.12	1.12	0.44	0.25	0.12

TABLE 3
HABITAT DESCRIPTIONS FOR DESERT TORTOISE TRANSECT SETS ADJACENT TO THE EAGLE MOUNTAIN ROAD RIGHT-OF-WAY

Transect Number	Vegetation	Soils	Slope	Aspect
1	*Larrea, Ambrosia, Fouquieria, Encelia,* *Plantago, Olneya*	gravelly, with sandy washes	0-2%	N-facing
2	*Larrea, Olneya, Cercidium, Opuntia, Fouquieria, Plantago, Lepidium*	sandy, pebbly	0-2%	N-facing
3	*Cercidium, Larrea, Hymenoclea, Opuntia*	rocky, cobbly	0	-
4	*Larrea, Cercidium, Ambrosia, Acacia*	sandy, pebbly, some pavement	0	-
5	*Larrea, Olneya, Ambrosia, Opuntia, Fouquieria, Ferocactus, Lepidium*	rocky	0-2%	S-facing
6	*Larrea, Olneya Ambrosia, Ferocactus, Fouquieria, Mammalaria*	gravelly, rocky	0-2%	S-facing
7	*Larrea, Cercidium Fouquieria, Opuntia, Hymenoclea, Encelia*	rocky, pavement	0	-
8	*Larrea, Encelia Ambrosia, Cercidium Grayia, Mammalaria Plantago, Asclepias*	rocky, pavement	0-2%	E-facing

TABLE 4
HABITAT DESCRIPTIONS FOR DESERT TORTOISE TRANSECT SETS ADJACENT TO THE EAGLE MOUNTAIN RAIL LINE RIGHT-OF-WAY

Transect Number	Vegetation	Soils	Slope	Aspect
9	*Larrea, Ambrosia, Opuntia, Fouquieria, Lycium, Justicia, Olneya*	small rock, pavement	0-2%	N-facing
10	*Larrea, Olneya, Fouquieria, Ferocactus, Ambrosia, Hymenoclea*	rocky	0-2%	N-facing
11	*Larrea, Fouquieria, Prosopis, Hymenoclea, Opuntia*	sandy, pebbly	2-5	W-facing
12	*Larrea, Fouquieria*	firm sand	0	-

TABLE 5
HABITAT DESCRIPTIONS FOR DESERT TORTOISE TRANSECT SETS ADJACENT TO THE KAISER ROAD RIGHT-OF-WAY

Transect Number	Vegetation	Soils	Slope	Aspect
13	*Larrea, Ambrosia, Acacia, Opuntia,, Hymenoclea*	sandy, pebbly	3%	N-facing
14	*Larrea, Ambrosia, Hymenoclea, Opuntia, Olneya*	sandy, pebbly	0%	-
15	*Larrea, Cercidium, Hymenoclea, Olneya, Acacia, Ambrosia*	sandy, pebbly, some rocky	0	-
16	*Larrea, Cercidium, Ambrosia, Acacia Olneya, Hymenoclea*	sandy	0	-
17	*Larrea, Olneya, Acacia, Opuntia,*	pebbly, rocky pavement	0	-
18	*Larrea, Ambrosia*	sandy, pebbly, pavement	0	-

survey period. However, assuming that sign density is an indicator of tortoise density, it appears that tortoise density is less than half that adjacent to Eagle Mountain Road.

The data also show that, adjacent to both the road and rail line, tortoise activity is not uniformly distributed. Vegetation and soils varied from transect to transect, and undoubtedly influenced the distribution of tortoise activity. This pattern was especially evident in the vicinity of the Eagle Mountain Road right-of-way. Tortoise activity is greatest adjacent to the first three to four miles of Eagle Mountain Road north of I-10, with the most sign found within the first three miles. No sign was found north of Victory Pass. As the road right-of-way proceeds from I-10 north, the soils become increasingly more rocky, and a greater proportion of desert pavement is present. These soil conditions are not as favorable to the desert tortoise.

The four to one ratio of tortoise sign abundance between the rail line and the road areas holds true not only for total sign abundance, but for each type of tortoise sign found. Table 2 outlines the type of tortoise sign found per mile of transect in the vicinity of both the roads and rail line. For most types of tortoise sign recorded, the relative frequency is three to ten times greater near the rail line as compared to the roads.

The habitat descriptions listed in Tables 3, 4, and 5 do not show a pattern of tortoise abundance that relates to specific plant species. All sites contained creosote bush, the most common plant normally associated with the desert tortoise in the Colorado Desert. However, soil type does show some tendency to correspond with tortoise abundance. Sites with sandy soils tended to have more tortoise activity, although other soil types supported tortoises. Rocky soil (moderate-sized cobbles and rocks: one to six inches in diameter) with an abundance of desert pavement appeared to have the least likelihood of supporting tortoises. This latter soil type seemed to predominate along the Eagle Mountain Road right-of-way from just south of Victory Pass northward to the town of Eagle Mountain, as well as adjacent to portions of Kaiser Road. Little or no tortoise sign was found adjacent to these portions of the road rights-of-way. Certain areas adjacent to Kaiser Road (Transect 18) appeared to have high quality tortoise habitat (i.e., creosote scrub flats and sandy/pebbly soils) but very little tortoise sign was found. Whether the absence of tortoise was the result of human activity or just the result of the naturally spotty distribution of tortoise populations could not be determined.

IV. Conclusions

The results of this desert tortoise survey generally confirmed the estimates generated by Berry and Nicholson (1984) that tortoise abundance was four to five times greater in the Chuckwalla Bench ACEC south of I-10 than in the vicinity of Eagle Mountain Road. Relatively high densities of tortoise occur adjacent to the rail line to the south of I-10, probably approaching 100 to 250 per square mile. The density of tortoises appears to be substantially lower to the north of I-10 than to the south in the ACEC, with highest densities in the habitat away from the road in the first three miles to the north of I-10. Densities may reach 20 to 50 individuals per square mile, but appear to be lower immediately adjacent to the road due to historic vegetation modification (military encampments) and current off-road-vehicle activity. Tortoises occur in very low density (0 to 20 per square mile) along Eagle Mountain Road from just south of Victory Pass and on to the north, as well as along Kaiser Road.

Roadway traffic along Eagle Mountain Road and Kaiser Road could result in losses of individual tortoises attempting to cross these roads. A number of measures can be implemented to reduce the potential for impacts to tortoises.

V. Recommendations

The data collected in this study do not allow a precise estimate of the number of desert tortoises currently inhabiting the area adjacent to the roadways or the number that might be lost along Eagle Mountain Road and Kaiser Road due to traffic generated by the Eagle Mountain Landfill. However, some recommendations can be made concerning mitigation measures designed to avoid or minimize the potential for take of tortoises.

A. Traffic Control

Mine Reclamation Corporation has recently revised its original plan to have 200 round-trip truck trips per day travel down Eagle Mountain Road to deliver refuse to the landfill. The revised plan reduces the number of round-trip truck trips to 100. After three years, only trucks originating from the desert communities (east of Banning to Blythe) would be allowed to access the site. The maximum daily limit on the number of trucks from these communities would also be 100. This limitation would continue for the life of the landfill operation.

This proposed reduction in truck traffic along Eagle Mountain Road would also benefit the local tortoise population by reducing potential wildlife roadkills which could in-turn attract ravens, thus, reducing the threat of this potential tortoise predator.

B. Monitoring of Roadways

With this revision in mind, RECON recommends that during the first three years of the project that a qualified biologist monitor Eagle Mountain Road and Kaiser Road several times per day, while truck traffic is present, and remove any tortoises from the roadways. The biologist should also be on call at all times to respond to tortoise sightings on the roads made by truck drivers or other motorists. The biologist will record the location, time, date, and condition of each tortoise encountered. These data will be reported to the USFWS, BLM, and California Department of Fish and Game (CDFG) semi-annually.

At the end of the three-year period, the USFWS, BLM, and CDFG, in consultation with each other, will decide if the installation of a barrier-culvert system is required. The need for the barrier system will be evaluated on the basis of the probability of traffic-related tortoise mortality as assessed by the tortoise encounter monitoring program. MRC would be notified of the decision and given one year with which to construct a barrier-culvert system according to specifications and approval of the USFWS, BLM, and CDFG.

C. Tortoise Barriers Along Eagle Mountain Road

RECON recommends that the first 4.5 miles of Eagle Mountain Road from I-10 northward to Victory Pass be designed and constructed to accommodate a barrier-culvert system (see Figure 3). The construction should provide for a barrier system as described below.

The barrier-culvert system, if required as a result of the monitoring program, should be designed to place the culverts at high points along the roadway, and not in the low points (i.e., dips). Placing culverts in the dips would require the construction of an extensive set of berms for water diversion. To construct this berm system would require the elimination of further tortoise habitat. It is recommended that a minimum of one culvert be placed for every mile of barrier.

Barriers are not warranted north of Victory Pass at this time given the overall poor quality and limited amount of potentially suitable habitat for tortoise adjacent to the roadway in this area. If monitoring determines at a later date that more barriers are necessary they can be installed.

D. Driver Education Program

MRC will initiate an education program for all drivers authorized to use Eagle Mountain Road to include:

1. A formal presentation by a qualified wildlife biologist to every driver authorized to use Eagle Mountain Road, including residents at the Metropolitan Water District (MWD) pumping station, which discusses the reasons for protecting the desert tortoise, the ecology of the desert tortoise along Eagle Mountain Road, and the protective measures requiring implementation by the drivers.

2. Strict requirements to stay within the road right-of-way.

3. Strict prohibition of throwing personal trash or food items along the road right-of-way and the reporting of any wind-blown trash that may have escaped a trash container.

4. Strict maintenance of the posted speed limit.

5. The requirement to check under a stopped vehicle before moving to prevent hitting a tortoise that may have sought shade while the vehicle was stopped.

6. Strict control over the possession of firearms or dogs while on the road right-of-way or the landfill site.

7. Strict prohibition of touching or collecting a tortoise. If a tortoise needs to be moved, a driver will be required to contact the designated wildlife biologist or his representative to remove it.

VI. References Cited

Berry, K. H. and L. L. Nicholson

1984 The distribution and density of desert tortoise populations in California in the 1970s. In K. H. Berry (Ed.), the status of the desert tortoise (*Gopherus agassizii*) in the U.S. Rept. to USFWS from the Desert Tortoise Council on Order NO.11310-0083-81.

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